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ROUTES
IN
MADRAS DISTRICT.

GENERAL STAFF, INDIA.

1922.

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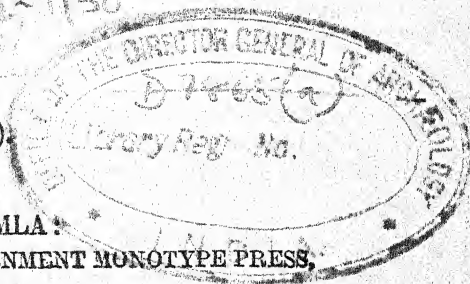
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1922.



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NOTE.

Names in this volume have been spelt as in the Postal Guide.

The minor routes are numbered from south to north as far as possible.

Subsidiary and connecting routes follow immediately after the main or minor routes from which they branch.

The following abbreviations have been used:—

b.—Travellers' Bungalow.

p.—Post Office.

t.—Telegraph Office.

r.—Railway Station.

Figures in brackets after names of places indicate population according to census of 1911.

Road fit for motors includes wheeled transport.

Unless otherwise noted, roads are in good repair and kept up.

It is particularly requested that any errors or omissions may at once be brought to the notice of the General Staff, Madras District.

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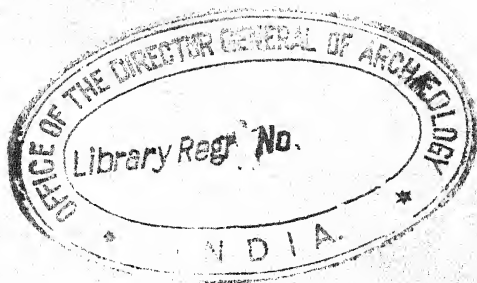
I.G.

ROUTES. MADRAS DISTRICT.

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PART I.

DESCRIPTION OF MAIN ROUTES.

(iv)



Madras Southern Mahratta Railway, single metre gauge, crosses road $4\frac{1}{2}$ m. N. of Vellichur. Water not plentiful in places in hot weather.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF MADRAS. COLLECTOR OF CHINGLEPUT, COLLECTOR OF SAIDAPET.	DISTRICT, WELLINGTON.	1	FORT ST. GEORGE (MADRAS).
		11m. 0f.	TALKAN'S CHATTRAM.—11m. (3,000). Road metalled, in good condition, fit for all transport. <i>Camping ground</i> .—10 acres, S.-W. of village. <i>Water</i> .—From wells and tank, for 500 men and 200 animals at all seasons. <i>Supplies</i> .—Unlimited, from Madras.
		2.	PUDUVAYIL.—20 m. Road metalled, fit for p. (740). all transport, through cultivated country. <i>Camping ground</i> .—40 acres, S. of village. <i>Water</i> .—Unlimited, from springs which could be dug, if notice is given, in the bed of the Arani river 1 m. away; a well $\frac{1}{2}$ m. away can supply 100 animals; at 1 m. pass Red Hills, where there is a large tank. Cross the Cortelia river, bridged.
COLLECTOR OF NELLORE.	GENERAL OFFICER COMMANDING, MADRAS	31 m. 0f.	<i>Fuel</i> .—3 cart loads from Ponneri 4 m., also from 15 acres, 3 m. from camping-ground. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Unlimited from Madras.
		3.	ARAMBAKKAM.—16 m. 2f. Road metalled, r. (1,800). fit for all transport, through country wet cultivation. At 2 m. Ponneri river, 150 yds.
		47m. 2f.	

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

MAIN ROUTE NO. III.

COLLECTOR OF NELLORE, NELLORE.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON,

masonry bridge. At 5 m. 4f. pass Gum-medipudi (1900) (b); the village belongs to the Kalahasti Zemindary; Madras and Southern Mahratta Railway Station. At 6 m. cross back water, 100 yds., bridged Pass Pannambader.

Camping ground.—About 6 acres E. of village; good and open, low but dry.

Water.—For 1,000 men and 200 horses, from a pond and 4 wells close by and a tank $\frac{3}{4}$ m. away, sufficient for 200 men and 1,000 animals in hot weather; water in former is not good, that in the latter is drinkable.

Fuel.—Nil.

Fodder.—Grazing, in cold weather, for 1,000 animals within 1 m. Forage has to be got from Madras.

Supplies.—Food for any number of men at a fortnight's notice; vegetables January to March and August to October for about 500 men. Oxen 5; sheep 400; goats 500.

4.

60 m. 6f.

SULURPETA.—13 m 4f.—Road metalled, p. r. (3,000)

fit for all transport. Country partly jungly and partly

cultivated. Headquarters of a Deputy Tahsildar. Madras and Southern Mahratta Railway Station. At 13 m. cross Kallongy river, 150 yds., masonry bridge.

Camping-ground.—10 acres, S. of town.

Water.—Always available, from the river close by, for any number of men and horses. Also tank and a well. Pond near camping-ground unfit for drinking purposes.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		5	<p><i>Fuel.</i>—10 cartloads.</p> <p><i>Fodder.</i>—Grazing, in cold weather, $\frac{1}{2}$ m. — 300 animals.</p> <p><i>Supplies.</i>—Grain in large quantities for men and animals available. Cxen 5; sheep 100; goats 100.</p>
		60 m. 0 f.	<p>DHORAVARI CHATTRAM.—9m. 2f. Metalled r. (250) road, fit for all transport but in parts requires repair. Country mostly, jungle, with a little wet cultivation.</p> <p>Madras and S. Mahratta r. s. Nalaballi, 3m 4f. beyond, is sometimes preferred as a halting place; camping ground, 6 acres, W. of village.</p> <p><i>Water.</i>—Always available for 500 men and 200 animals, from stone built tank 200 yds. away.</p> <p><i>Fuel.</i>—From forest $\frac{1}{2}$ m.</p> <p><i>Fodder.</i>—Grazing for 100 animals in cold weather.</p> <p><i>Supplies.</i>—At a fortnight's notice. Sheep 200; goats 200.</p>
		6	<p>WOJILLI or—15 m. 1f. Metalled road, fit for motors, except at Swarnamukhi river $\frac{1}{2}$ m. At 11 m. unbridged, unfordable in rains, which motors cannot cross. Country generally open, with patches of low jungle. At $3\frac{3}{4}$ m. Nellapalli. $8\frac{1}{2}$ m. Naidupet, where Route No. 43 joins. $12\frac{1}{4}$ m. Mawidikalva, 100 yds, brick bridge. $13\frac{1}{2}$ m. Pandlur.</p>
		85 m. 1 f	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military		
COLLECTOR OF NELLORE, NELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground</i>.—High and good, about 10 acres, N.-E. of village.</p> <p><i>Water</i>.—From a tank, for about 1,000 men and cattle; normally, water in wells insufficient to meet any large demands.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing at 2 m. for 1,000 animals.</p> <p><i>Supplies</i>.—Sheep 50; goats 50.</p>
		7	<p>GUDUR.—11 m. 1 f. Metalled road, fit for b.p.t.r. (8,300) motors. Country open, mostly cultivated. The Bungalow is S. of village and 4f. W. of road. Headquarters of Sub-Collector. Junction of broad and metre gauges, Madras and Southern Mahratta Railway. Nalas all bridged. At 5 m. Budanam. 7 m. stream, unbridged, but fordable, except in flood. At 10 m. Chillakar.</p> <p><i>Camping-ground</i>.—About 3 acres, S. of town.</p> <p><i>Water</i>.—3 wells and 1 tank, for 1,000 men and animals.</p> <p><i>Fuel</i>.—5 tons, in Fuel Depot.</p> <p><i>Fodder</i>.—Grazing, 2 m., for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men and animals for 1 week. Sheep 200; goats 200.</p>
		96 m. 2 f.	
		8	<p>VENKATACHALA'S.—12 m. 2 f. Metalled road; CHATTRAM fit for motors</p> <p>b. p. r. (3,000). Country level, with much low jungle.</p> <p>Nalas all bridged. Madras and Southern Mahratta Railway Station. River Potella-</p>
		108 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>kalva is bridged, and bridge can carry guns. The Nakala Kalva impassable during the rains. At $\frac{1}{2}$ m. Challakalva river, 100 yds., masonry bridge. At 2 m. Cross Pam-baleru river twice, 80 yds. and 50 yds., masonry bridges. At $3\frac{1}{2}$ m. Kandlern, 80 yds., masonry bridge. 5 m. Manvbole (3,600).</p> <p><i>Camping-ground</i>—29 acres, S. of village.</p> <p><i>Water</i>.—1 tank and 4 wells, for 400 men and 200 animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing for 500 animals close to Camp.</p> <p><i>Supplies</i>.—Nil.</p>
		<p>9</p> <p>117 m. 4f.</p>	<p>NELLORE.—9 m. 0 f. A large town. Road b.p.t.r. (37,000) fit for all transport; through cultivation as far as Buja Buja, 5 m., where there is low jungle. Headquarters of the Collector, Tahsildar, Police Superintendent, District Judge, Executive Engineer, Superintendent of Post and Telegraph Offices; East Coast Railway Station. Climate dry and salubrious. Madras and Southern Mahratta Railway Station. Route No. 46 joins here. At 4 m. Kakatur (1,100).</p> <p><i>Camping-ground</i>. About 42 acres, S. of town.</p> <p><i>Water</i>.—From 3 wells and a large tank, for 1,000 men and 500 animals in all seasons.</p> <p><i>Fuel</i>.—100 tons.</p> <p><i>Fodder</i>.—For 500 animals, close to Camp.</p> <p><i>Supplies</i>.—Can be had at one week's notice for 2,000 men and 500 cattle. Oxen</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			10; sheep 100; goats 50. Vegetables 100 maunds.
		10	KOMMAPALAIYAM.—11 m. 1f. Metalled road, (1,700). fit for all transport, through open and cultivated country. At 1 m. cross the Penner river, unbridged, 1 m. broad. At 3 m. Kovur 6,000).
		128 m. 5f.	<i>Camping-ground</i> .—About 5 acres, W. of village. <i>Water</i> .—For 100 men and animals, from a pond and well, but likely to give out. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Grazing for 100 animals 1 m. from Camp. <i>Supplies</i> .—For 200 men and cattle for one day. Oxen 100; goats 60.
		11	WALLAVAPAD.—9 m. 7f. Metalled road, fit or for all transport.
		138 m. 4f.	ULAVAPADU Country covered with tamarind. At 1 m. Pyder river, 200 yds, laterite bridge. At 3 m. Recherlafa (2,300). At 6 m., S.-E. Allur. At 6½ m. Sunnapu. <i>Camping-ground</i> .—About 6 acres, N. of village. <i>Water</i> .—For 1,000 men and 500 animals, from a pond and well. <i>Fuel</i> .—10 cartloads. <i>Fodder</i> .—Grazing for 200 animals ½ m. from camping-ground. <i>Supplies</i> .—Grain for 500 men and 200 animals for a few days. Oxen 50; sheep 10; goats 20.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	12	<p>KAVALL.—13 m. Metalled road, fit for all (3 500) transport. Country open. Headquarters of a Deputy Collector and Tahsildar. Madras and Southern Mahratta Railway Station. At 3 m. Kovurpalli (500). 4 m. Kadanuthahala (100). 6½ m. Govravaram. (1,500) 10 m. Munwe (2,000). At 7½ m. Pillivagu stream, 100', stone bridge. At 7¾ m. supply channel, 110', stone bridge. At 7¾ m. Vuphalivagu stream, 50', stone bridge. At 9¾ m. supply channel, 110', stone bridge. At 10½ m. supply channel, 70', stone bridge.</p> <p><i>Camping-ground.</i>—Good, about 7 acres, S. of town.</p> <p><i>Water.</i>—From irrigation tank and 6 wells, for 1,000 men and animals.</p> <p><i>Fuel.</i>—2 tons at two days' notice.</p> <p><i>Fodder.</i>—Grazing for 500 animals 1m. from Camp.</p> <p><i>Supplies.</i>—Grain for 200 men and animals at 7 days' notice. Oxen 4; sheep 200; goats 25; vegetables at 2 days' notice.</p>
		151 m. 4f.	
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	13	<p>TETTU.—9 m. Metalled road, fit for all r. (1,550). transport. Country open, partly cultivated, partly jungle. At 3 m., Maddulupodu (1000); 5 m., Rudeakota (1,300); 7 m., Yellorapaon (1 300). Madras and Southern Mahratta Railway Station.</p> <p><i>Camping-ground.</i>—2 acres, S.-W. of village, used also as a cattle stand.</p> <p><i>Water.</i>—For 200 men and 50 animals, from a tank close by and a well; former dries up in hot</p>
		160 m. 4f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	14	<p>weather. Cross Chevor tank by an embankment.</p> <p><i>Fuel.</i>—Large stocks at station for supply to Madras.</p> <p><i>Fodder.</i>—Grazing available in reserve forest.</p> <p><i>Supplies.</i>—For 200 men and 50 animals for 4 days; sheep 50; goats 10.</p>
		173 m. 4 f.	<p>SINGARAYA KONDA.—13 m. Metalled b.p.r. (1,000) road, fit for all transport. Country open, with patches of cultivation and jungle; road very sandy to the river; the right bank of the Manneru is very difficult for carts to ascend; cross the Manneru river, unbridged, at 11 m., 130 yds. wide; it is provided with a causeway. At 8 m., Ulavapad (2,500). Madras and Southern Mahratta Railway Station.</p> <p><i>Camping-ground.</i>—3 acres, E. of village.</p> <p><i>Water.</i>—2 tanks, wells and pond, for 500 men and animals.</p> <p><i>Fuel.</i>—Available at Railway Station.</p> <p><i>Fodder.</i>—Grazing nil.</p> <p><i>Supplies.</i>—For 200 men and 50 cattle for a week; sheep 50; goats 50.</p>
COLLECTOR OF GUNTUR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	15	<p>TUNGATUR.—7 m. 0 f. Metalled road, fit only b.p.r. (8,752'). for wheeled transport; in fair condition</p> <p>At 5 m. the bed of the Palar river—660 yds., unbridged, causeway, often impassable during rains. At 2 m., Kallikivagi; 4 m., Bitagunta; 6 m. stream, 100 yds., bridge and causeway.</p>
		180 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF GUNTUR.			<p><i>Camping-ground.</i>—4 acres, N. of town. <i>Water.</i>—Unlimited during rainy season; in hot season, only for about 150 men and 50 animals. <i>Fuel.</i>—Scarce. <i>Fodder.</i>—Grazing <i>nil</i>. <i>Supplies.</i>—Grain for 150 men and 100 animals for 4 days. Oxen 20; sheep 400; goats 10—available only in April, May and June.</p>
		16	<p>ONGOLE.—11 m. 0 f. A large town, road metallised and fit for all transport; in fair condition; Country open and cultivated. Headquarters of Tahsildar, District Munsiff and Assistant Superintendent of Police, Madras and Southern Mahratta Railway Station. At 3 m. Mushi river, is provided with a causeway, 130 yds., but is impassable in October and November. Route No. 49 crosses here. At 4 m. Torpunaiduballem (798). 6 m. Vellur (1,925). 6½ m. stream, 100 yds. cross by road dam. 8 m. Pellur (1,270). 8½ m. stream, 50 yds. road dam.</p>
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		191 m. 4 f.	<p><i>Camping-ground.</i>—About 7 acres, near the Byragi Mutt. <i>Water.</i>—From a tank, unlimited in rains. <i>Fuel.</i>—Large quantities cut and stacked. <i>Fodder.</i>—Grazing <i>nil</i>. <i>Supplies.</i>—Unlimited, for men and animals. Oxen 40; sheep 50; goats 10—at a week's notice any numbers available. Vegetable in fair quantities.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF QUNTUR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	17	VELLAMPALLE.—10m. 4f. Road metal- b. (500). led and fit for all trans- port. Country open, cultivated and level. At 10½ m. cross the Gundlakama river, unbridged. It can be crossed everywhere, except when in flood, by Cavalry and Infantry.
		202 m. 0 f.	<i>Camping-ground.</i> —5 acres, S. of village. <i>Water.</i> —Unlimited, from the river, in all seasons. <i>Fuel.</i> —50 cartloads. <i>Fodder.</i> —Grazing nil. <i>Supplies.</i> —For 100 men and animals at a week's notice, unlimited supplies at 2 months' notice. Oxen 4; sheep 20; goats 20.
		18	ADDANKI —13 m. 0 f. Metalled road, fit p. (8,350). for all transport.
		215 m. 0 f.	This village is the centre of an extensive pulse-growing and cattle breeding tract, and has a large trade in grain : At 3 m. N. there is a conspicuous conical hill : chain of hills E. and W. of road, partly covered with cactus. At 1 m. cross the Gundalakama river, unbridged, at the beginning of the stage, 120 yds. broad. In rains, 2 boats available. At 4 m., Timmanabalem (3,610). At 6 m. pass Medaramitta, where Main Route V joins. At 10 m. cross a <i>nala</i> , 50 yds., fordable. <i>Camping-ground.</i> —About 10½ acres, E. of town. <i>Water.</i> —From wells and the river, unlimited, except in a very dry year.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF GUNTUR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing: 200 acres within 1 m. of camp.</p> <p><i>Supplies.</i>—Grain for 400 men and 50 animals for 2 days (with notice, large quantities available). Oxen <i>nil</i>; sheep 20; goats 10; vegetables in small quantities.</p>
		19	KOPPERAPAD.—9 m. 7. f. Road metalled; fit for all transport. Hills close in here, but open out again further on; prominent isolated hill known as Bokulkonda, very difficult to ascend. Cross, by causeways, one large and several small <i>nalas</i> , unbridged but fordable. At 4½ m. cross Bhavansiyeru river, fordable except in flood.
		224 m. 7 f.	<p><i>Camping ground.</i>—About 3½ acres, N. of village</p> <p><i>Water.</i>—From 2 wells, for about 2,000 men and 1,000 animals for 2 days at any season.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing: for 200 animals 1 m. from camp.</p> <p><i>Supplies.</i>—Very scarce, but, with 2 months' notice, unlimited supplies are obtainable.</p>
		20	VELICHUR.—9 m. 5 f. Road metalled, b. p. (2,000). with good avenues; fit for all transport, Country open or cultivated. At 7 m. Kommatapad (2,000), has a travellers' bungalow, post office and police station. Cross several small <i>nalas</i> , unbridged but fordable, also a river, not fordable during freshets. At 2½ m., Sankaramalingam (300). At 9½ m.
		234 m. 4 f.	

MAIN ROUTE NO. III.

AUTHORITIES.

Civil. Military.

No.
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stage
and
total
distance.

COLLECTOR OF GUNTUR.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

21

243 m.
6 f.

stream, unbridged, fordable except for a few hours in flood.

Camping-ground.—About 5 acres, S.E. of village.

Water.—For 1,000 men and 500 cattle, from tanks and wells, for 2 days, during rainy season only.

Fuel.—Nil.

Fodder.—Grazing for 500 animals 2 m. from Camp.

Supplies.—Scarce. Sheep and goats 100 each.

RAMPICHERLA.—9 m. 2 f. Road metal-
b. (3,000). led, fit for all trans-
port; group of

hills round Elehur, afterwards country dead-
flat for miles. Cross, by causeways, several
small and two large *nalas*, unbridged and all
fordable. Route No. 50 crosses in this stage,
At 3½ m. Puttavaripalem, hamlet of Santa
Magalur (200). At 4 m. Santa Maglur rail-
way station.

Camping-ground.—E. of village; for 1½
Infantry Brigade.

Water.—For 200 men and 150 animals, except
in summer and in a dry year.

Fuel.—Limited.

Fodder.—Grazing very limited.

Supplies.—Grain for 1 company (men and ani-
mals) for one day. Sheep and goats 20 each.

22

256 m.
1 f.

NAKRIKAL.—12 m. 3 f. Road metal-
b. p. (2,500). fit for all transport.

Country covered
with rocks and boulders; as a rule open. At
10 m. N. of Rampicherla, a very good road

AUTHORITIES.		No. of stage and total distance	MAIN ROUTE NO. III.
Civil.	Milit- tary.		
COLLECTOR OF GUNTUR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			leads to Narasarayupet. Cross several bridged and unbridged <i>nalas</i> , also 2 <i>nalas</i> , unbridged but fordable during freshets. All unbridged <i>nalas</i> are provided with causeways.
			<i>Camping-ground</i> .—N. and N.-E., of village, for 1½ Infantry Brigades.
			<i>Water</i> .—For 100 men and 50 animals for 2 or 3 days, from the Vadde Vagua and from wells, except in dry years, but sufficient for double the numbers in the rains.
			<i>Fuel</i> .—Limited, from Forest Reserve and unsurveyed land near town.
			<i>Fodder</i> .—Grazing limited.
			<i>Supplies</i> .—For 100 men and 50 animals at 4 hours notice, unlimited supplies at 2 months notice. Oxen 60; sheep 120; goats 180.
		23	PIDUGURALLA.—9 m. 0 f. Road metalled and (2,000). fit for motors, good avenues. Country hilly and jungly. At 5 m. Kotanguvalipur (200).
		265 m. 1 f.	<i>Camping-ground</i> .—E. of village, for 2 Battalions.
			<i>Water</i> .—From wells, for 1,500 men, except in dry weather.
			<i>Fuel</i> .—From Forest Reserve 1 m. from camp.
			<i>Fodder</i> .—Grazing for 1,000 animals in Forest Reserve (in rains only).
			<i>Supplies</i> .—Grain very limited. Sheep 200.
		24	DACHEPALLE.—13 m. 0 f. Road metalled, fit b. p. (3,000'). for motors. Country open and cultivated near road. At 5 m. pass Brahmanapalli (1,900), a large village suitable for a halt. Cross 6 <i>nalas</i> , unbridged but fordable.
		278 m. 1 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III.
Civil.	Military.		
COLLECTOR OF GUNTUR.			<p><i>Camping-ground.</i>—W. of village, for 1 Battalion.</p> <p><i>Water.</i>—Unlimited, from Nagerleru river.</p> <p><i>Fuel.</i>—From Forest Reserve 3 m. off.</p> <p><i>Fodder.</i>—Grazing for 100 animals within 2 m.</p> <p><i>Supplies.</i>—Grain for 1 Battalion (men and animals) for 1 day. Oxen 10; sheep and goats 50 each. Vegetables, small quantities only in rains.</p>
		25	<p>PONDUGULA.—8 m. 0 f. Small village, on right bank of Kistna.</p> <p>Metalled road, fit for all transport. Country open and mostly cultivated. The river is $\frac{1}{2}$ mile wide with steep approaches, 3 fords near village, impossible to cross in floods; large ferry boat can carry 150 men and horses; fields enclosed by loose stone walls. At 4 f. cross the Nagerleru and Nulluvagu rivers, unbridged and unfordable during freshets, but provided with Irish bridges; also cross several small <i>nalas</i>, unbridged but fordable. At 3 m. Gomalapalli (1,750).</p> <p><i>Camping-ground.</i>—For one Battalion, E. of village.</p> <p><i>Water.</i>—Unlimited, from River Kistna.</p> <p><i>Fuel.</i>—From Forest Reserve at 1 m.</p> <p><i>Fodder.</i>—For 100 animals, within 1 m.</p> <p><i>Supplies.</i>—Grain for $\frac{1}{2}$ Battalion, (men and animals) for 1 day. Oxen 4; sheep and goats 25 each.</p> <p>For continuation see Vol. VI India Route Book.</p>
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		286 m. 1 f.	

MAIN ROUTE No. III (1).

FROM THE FORT TO ENNUR

This is a good, gravelled, bridged and always practicable road; it runs along the coast.

DIRECTION—NORTH BY EAST.

AUTHORITIES		No. of stage and total distance.	MAIN ROUTE NO. III (1).
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, MADRAS, SAIDAPET.	G. O. C. MADRAS DISTRICT, WELLINGTON.		THE FORT.
		1 11m. 3f.	ENNUR— <i>p.t.</i> —11 m. 3 f. Pass Ennur railway station.

MAIN ROUTE No. III (2).

FROM RED HILLS TO VALLUR.

Bridged and metalled throughout, practicable for carts at all seasons.

DIRECTION—WEST BY NORTH.

COLLECTOR OF CHINGLEPUT, SAIDAPET.	G. O. C. MADRAS DISTRICT, WELLINGTON.		
		..	RED HILLS— <i>p.</i> (At 12th mile.)
		1 13m. 4f.	VALLUR.—13 m. 4 f.

MAIN ROUTE No. III (3).

FROM THE LEFT BANK OF THE CORTELLIAR RIVER TO
PUTTUR RAILWAY STATION.

Cross the Arni river, unbridged. Road metalled, and all smaller streams bridged; practicable for carts at all seasons.

DIRECTION—WEST AND NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (3).
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SADAPEE.	G.O.C. MADRAS DISTRICT, WELLINGTON.	..	LEFT BANK CORTELLIAR RIVER (AT 17TH M.)
		1	UTTUKOTA.—18m. 4 f. Distance approximate. <i>p.</i>
		18m. 4f.	
		2	NAGALAPURAM.—7 m. 4f. Distance approximate. <i>p.</i>
COLLECTOR OF NARCOOT.	G.O.C. MADRAS DISTRICT, WELLINGTON.	26m.	
		3	PUTTUR RAILWAY STATION, NORTH-WEST LINE.—17 m. 4 f. <i>p.r.</i>
		43 m. 4f.	

MAIN ROUTE No. III (4).

FROM PANJOTTI TO PULICAT.

Cross the Arni river, unbridged. A fair weather road only, unmetalled and unbridged.

DIRECTION—NORTH-EAST.

COLLECTOR OF CHINGLEPUT, SADAPEE.	G.O.C. MADRAS DISTRICT, WELLINGTON.	..	PANJOTTI (AT 19TH M.).
		1	PONNERI.—5 m. 0f. Distance approximate. <i>p.t.r.</i>
		5m. 0f.	
		2	PULICAT.—11 m. 0f. <i>p.</i>
		16m. 0f.	

MAIN ROUTE No. III (5).
FROM PUDUVAYIL TO ARNI.

Bridged and metalled throughout, always practicable for carts.

DIRECTION—WEST BY NORTH.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (5).
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SIADAPET.	G. O. C. MADRAS DISTRICT.	..	PUDUVAYIL.—
		1	<i>p.</i> ARNI.—4 m. 0f.
		4 m. 0f.	<i>p.</i>

MAIN ROUTE No. III (6).
FROM NAYUDUPET TO DUGARAZPATNAM.

Road metalled.

DIRECTION—EAST BY NORTH.

COLLECTOR OF NELLORE, NELLORE.	G. O. C. MADRAS DISTRICT.	..	NAYUDUPET.—
		1	<i>p. r.</i> DUGARAZPATNAM.—18 m. (On the Coast.)
		18 m. 0f.	<i>b. p.</i>

MAIN ROUTE No. III (7).
FROM NAYUDUPET TO VENKATAGIRI.

Metalled road.

DIRECTION—WEST.

COLLECTOR OF NELLORE, NELLORE.	G. O. C. MADRAS DISTRICT.	..	NAYUDUPET
		1	<i>p. r.</i> VENKATAGIRI.—22 m. 4f.
		22 m. 4f.	<i>p. t. r.</i> Venkatagiri is the residence of the Rajah or Zemin- dar of Venkatagiri.

MAIN ROUTE No. III (8).
FROM 80TH MILE TO DUGARAZPATNAM.

Cross the Challa Kalwa and Swarnamukhi rivers, unbridged.
Road metalled, two streams only, unbridged, practicable at all seasons.

DIRECTION—SOUTH-EAST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (8).
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C. MADRAS DISTRICT.	..	80TH MILE.
		1	DUGARAZPATNAM.—20 m. of. (On the Coast.) <i>b. p.</i>
		20 m. of.	

MAIN ROUTE No. III (9).

FROM THE 82ND MILE TO THIKKAVARAM.

Metalled road.

DIRECTION—EAST BY SOUTH.

COLLECTOR OF NELLORE, NELLORE.	G. O. C. MADRAS DISTRICT.	..	82ND MILE.
		1	THIKKAVARAM—6 m.
		6 m. of.	

MAIN ROUTE No. III (10).

FROM GUDUR TO RAPUR.

Metalled road, partially bridged.

DIRECTION—NORTH-WEST.

COLLECTOR OF NELLORE, NELLORE.	G. O. C. MADRAS DISTRICT.	..	GUDUR.
		1	<i>b. p. t. r.</i> RAPUR.—22 m.
		22 m. of.	<i>p.</i> Cross the Venkatagiri river, unbridged. It is 100 yds. wide, with a sandy bed, impassable for a short time after heavy rain in the hills.

MAIN ROUTE No. III (11).
FROM THE 90TH MILE TO SANGAM.

Road metalled and bridged throughout; practicable at all seasons.

DIRECTION—NORTH-WEST.

AUTHORITIES.		No of stage and total distance.	MAIN ROUTE NO. III (11).
Civil.	Military		
COLLECTOR OF NELLORE, NELLORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	90TH MILE.
			NEAR MANUBOLU.— <i>r.</i>
		1	PODALAKUM.—16 <i>m.</i> 0 <i>f.</i>
		16 <i>m.</i> 0 <i>f.</i>	
		2	SANGAM.—14 <i>m.</i> 0 <i>f.</i>
			<i>p.</i>
		30 <i>m.</i> 0 <i>f.</i>	

MAIN ROUTE No. III (12).

FROM VENKATACHALA'S CHATRAM TO KISTNAPATAM.

Cross the Nakkala Kalwa, unbridged and unfordable for a day or two after heavy rain. Road metalled and partially bridged, practicable for carts at all seasons.

DIRECTION—EAST BY SOUTH.

COLLECTOR OF NELLORE, NELLORE	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	VENKATACHALA'S CHATRAM. <i>b. p. r.</i>
		1	KISTNAPATAM.—16 <i>m.</i> 6 <i>f.</i> (On the coast.) <i>b. p. t.</i>
		16 <i>m.</i> 6 <i>f.</i>	

MAIN ROUTE No. III (13).

FROM KISTNAPATAM TO NELLORE.

Cross the Nakkala Kalwa, as above. Road metalled and partly bridged; the East Coast Canal is crossed at $1\frac{1}{2}$ miles.

DIRECTION—NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (13).
Civil.	Military.		
COLLECTOR OF NELLORE.	G. O. C. MADRAS DISTRICT.	1	KISTNAPATAM.— (On the Coast.) <i>b. p. t. r.</i>
		17 m. 0 f.	NELLORE.—17 m. <i>b. p. t. r.</i>

MAIN ROUTE No. III (14).

FROM NELLORE TO KODUR.

Cross one large drainage channel at the 12th mile. Metalled road; good throughout.

DIRECTION—EAST.

COLLECTOR, OF NELLORE, NELLORE.	G. O. C. MADRAS DISTRICT.	..	NELLORE.— <i>b. p. t. r.</i>
		1	KODUR.—14 m. 2 f.
		14m. 2f.	

MAIN ROUTE No. III (15).

FROM NELLORE TO MAIPAUD.

Road metalled.

DIRECTION—NORTH-EAST.

COLLECTOR, OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT.	..	NELLORE.—
		1	<i>b. p. t. r.</i> MAIPAUD.—14 m. (On the Coast.)
		14 m. 0 f.	

MAIN ROUTE No. III (16).

FROM NELLORE TO GANGAPATAM.

Cross a drainage channel at the 15th mile. Road metalled and bridged throughout.

DIRECTION—NORTH-EAST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (16).
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT.	..	NELLORE.—
		1	<i>b. p. t. r.</i> GANGAPATAM.—14 m. 6f.
		14 m. 6f.	

MAIN ROUTE No. III (17).

FROM NELLORE TO ISKAPALLY.

This road follows the trunk road for 6 miles 2 furlongs and then turns N.-E. It is bridged and metalled.

DIRECTION—NORTH-EAST.

COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT.	..	NELLORE.—
		1	<i>b. p. t. r.</i> ALLUR.—16 m. 2f.
		16 m. 2f.	<i>p.</i>
		2	ISKAPALLY.—6 m. 0f. (On the Coast.)
		22 m. 2f.	<i>p.</i>

MAIN ROUTE No. III (18).

FROM THE 125TH MILE TO ALLUR.

A metalled road. Practicable at all seasons.

DIRECTION—EAST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (18).
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT.	..	125th MILE.—
		1	ALLUR.—6 m. 0 f. (On last branch). <i>p. r.</i>
		6 m. 0 f.	

MAIN ROUTE No. III (19).

FROM KAVALI TO UDAYAGIRI.

Cross numerous streams, unbridged, but all fordable. Road metalled and practicable at all seasons.

DIRECTION—WEST.

COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT.	..	KAVALI.— <i>b. p. t. r.</i>
		1	KALIGIRI.— 23 m. 0 f. <i>Vide</i> Route No. 47; <i>p. r.</i> Stage No. 2.
		23 m. 0 f.	
		2	DATTALOOR.—19 m. 4 f. <i>p.</i>
		42 m. 4 f.	
		3	UDAYAGIRI.— 7 m. 4 f. <i>p.</i>
		50 m. 0 f.	

MAIN ROUTE No. III (20).

FROM RAMAPATNAM TO ALAVALAPAD.

A good metalled road.

DIRECTION.—WEST-NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (20).	
Civil.	Military.			
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT.	1	RAMAPATNAM.—(On the coast.)	
		3 m. 2 f.	<i>b. p.</i> TETTU.—3 m. 2 f.	
		2	<i>r.</i> KANDUKURU.—16 m. 0 f.	
		19 m. 2 f.	<i>p. l.</i>	
		3	POMALUR.—8 m. 0 f. Good grove; water	
		27 m. 2 f.	brackish; supplies	
		4	ALAVALAPAD.—12 m. 0 f. A small grove on	
		39 m. 2 f.	the right bank of	
			the river; water from	
			here 100 yds. wide,	
			with a sandy and	
			stony bed. Supplies	
			available. On Route	
			No. 47.	

MAIN ROUTE No. III (21).

FROM SINGARAYA-KONDA TO ULLAPOLLEM.

A well-made road.

DIRECTION.—EAST.

COLLECTOR, OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT.	..	SINGARAYA-KONDA.—
		1	<i>b. p.</i>
		4 m. 0 f.	ULLAPOLLEM.—4 m. (On the Coast.)

MAIN ROUTE No. III (22).

FROM KOTTAPATAM to ONGOLE.

A metalled road.

DIRECTION.—NORTH-WEST

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (22).
Civil.	Mili- tary.		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KOTTAPATAM.—On the Coast. <i>p. t.</i>
		1	ONGOLE.—10 m. 5 f. <i>b. p. t. r.</i>
		10 m. 5 f.	

MAIN ROUTE No. III (23).

FROM DARSI TO ADDANKI.

Road metalled, except a few miles near Addanki.

Cross the Chilakaleru and Gundlakamma rivers, unbridged and impassable when in flood.

DIRECTION.—EAST BY NORTH.

COLLECTORS OF NELLORE AND GUNTUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	DARSI.— <i>p.</i>
		1	ADDANKI.—20 m. 0 f. <i>p.</i>
		20 m. 0 f.	

MAIN ROUTE No. III (24).

FROM ELCHUR TO KROSUR.

A metalled road, passable throughout the year.

DIRECTION—NORTH-EAST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. III (24).
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C., MADRAS DISTRICT.	.. 1	ELCHUR.— NARSARAVUPET.—9 m. <i>Vide</i> Route No. 50, <i>b. p. t.</i> Stage No. 15.
		9 m. 2	SATTENAPALLE.—13 m. $7\frac{1}{2}$ f. <i>Vide</i> Route <i>b. p.</i> No. 53, Stage No. 2.
		22 m. $7\frac{1}{2}$	Cross the Yadavalli Vagu, Isukapalem Vagu, Gollapadu Vagu, Mulakaluru Vagu, and 23 small streams, all unbridged.
		3	KROSUR.—10 m. 0 f. Cross 5 small <i>nalas</i> , <i>p.</i> unbridged.
		32 m. $7\frac{1}{2}$	

MAIN ROUTE No. III (25).

FROM PIDAGURALA TO GURAJALA.

Cross several small streams, unbridged. Metalled and always practicable.

DIRECTION.—WEST BY SOUTH.

COLLECTOR OF GUNTUR, GUNTUR.	G. O. C., MADRAS DISTRICT.	.. 1	PIDAGURALA.— <i>b. p.</i>
		7 m. 0 f.	JULAKALLU.—7 m. 0 f.
		25 m. 0 f.	GURAJALA.—18 m. 0 f. Distance approxi- mate.

MAIN ROUTE No. III (26).

FROM DACHEPALLE TO TUMAKOD.

Cross numerous streams, unbridged. Road metalled throughout and always practicable, the streams being impassable for a few days only after heavy rains.

DIRECTION.—WEST BY SOUTH.

AUTHORITIES.		No. of stages and total distance.	MAIN ROUTE NO. III (26).
Civil.	Muni- tary.		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C., MADRAS DISTRICT.	..	DACHEPALLE.— <i>b. p.</i>
		1	GURAJALA 6 m. 0 f. Distance approximate.
		6 m. 0 f. 2	TUMAKOD.—13 m. 6 f. <i>p.</i>
		19 m. 6 f.	

MAIN ROUTE NO. IV.

FROM FORT ST. GEORGE TO CHAMAN.

(PORTION FROM FORT ST. GEORGE TO HARIHAR.)

Length.—393 $\frac{1}{8}$ m.

33 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—General direction of the road is N.-W. The road from Fort St. George to Bangalore is metalled and fit for motors, and, two rivers excepted, is bridged throughout and is practicable for all arms the whole year; the unbridged rivers are fordable, but are occasionally impassable for a day or two after heavy rain. This is one of the best routes between Madras and Bangalore. From Bangalore to Harihar, it is a made road, metalled or gravelled and bridged throughout.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SAIDAPET.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	FORT ST. GEORGE— <i>vide</i> Main Route No. III, Initial Stage, page I.
		1	POONAMALEE.—12 m. 4f Town. Road as in <i>p. i. r.</i> epitome, country flat and cultivated. Depot for British Troops.
		12 m. 4f.	At 4 m. Aminjikarai (1946) 4 $\frac{1}{2}$ m. Cooum river, bridged 5 m. Dumbakkan (950). 6 m. Korjarpada (940). 7 m. Venkkaram (1630). 8 $\frac{1}{2}$ m. Maduravoyal (1345). 9 m. Vornagaram (930). 10 $\frac{1}{2}$ m. Numbal (2010). 2 m. Goparasanallur (170).

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SAIDAPET. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	<p><i>Camping-ground.</i>—6½ acres, E. of Town. <i>Water.</i>—For 1,000 men and 500 animals, from well at all seasons. <i>Fuel.</i>—4 tons stacked. <i>Fodder.</i>—Grazing; 10 acres, bad pasture, ¼ m. from Town. <i>Supplies.</i>—Grain for 1,000 men and 500 animals. Oxen 20; sheep 100; goats 100. Vegetables 5 maunds.</p>
		24 m. 3 f.	<p>SRIPERUMBUDUR.—11 m. 7 f. Town. Country cultivated and open. Route No. 38 joins at this stage. 5½ m. Palansur (580). 6½ m. Settichatu (170). 7½ m. Tan'alum (550). 9½ m. Ituncattukothai (570). 11½ m. Purantlangal (75). <i>Camping-ground.</i>—42 acres, E. of Town. <i>Water.</i>—From 2 ponds and a well, for 500 men and 100 animals, except in times of scarcity, when no water is available. <i>Fuel.</i>—Not obtainable. <i>Fodder.</i>—Obtainable with notice. <i>Supplies.</i>—In large quantities, if notice given.</p>
		3	<p>RAJAH CHATTRAM.—15 m. 0 f. Country as far as last stage, very damp during rains. There is a Post Office 5 m. distant. SITHAMVAKAIN (50). <i>Camping-ground.</i>—20 acres, on an open plain E. of village. <i>Water.</i>—For 500 men and animals, from a tank.</p>
		39 m. 3 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
COLLECTOR OF NORTH ARCOTT, NELLORE	COLLECTOR OF CHINGLEPUT, SAIDAPET. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Fuel</i>.—Scarce. <i>Fodder</i>.—nil. <i>Supplies</i>.—For 500 men and animals, from Conjeeveram at 1 month's notice.</p>
		4	<p>BALLOCHETTY CHATTRAM.—10 m. 6 f. p. (1820). Country as for last stage.</p>
		50 m. 1 f.	<p>Shrokedal (400). 4 m. Tirumasanudramigara (530). At 6 m. cross South Indian Railway line by level crossing; Conjeeveram Railway Station is 6 m. from there. Route No. 37 joins in this stage. <i>Camping-ground</i>.—About 30 acres, W. of village. <i>Water</i>.—From tank, ponds and wells, for 1,000 men and animals. <i>Fuel</i>.—Obtainable close by. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 100 men for 1 day. Sheep 500; goats 3,000.</p>
		5	<p>WACHERI CHATTRAM.—8 m. A small village. Country flat and well cultivated.</p>
		58 m. 1 f.	<p>At 4½ m. Perumfalipakam. 5 m. Avalor (900). 7½ m. McLean's channel, 100' Masonry bridge. <i>Camping-ground</i>.—A private Mango tope of 15 acres is available. <i>Water</i>.—Available in large quantities from 5 wells. <i>Fuel</i>.— } Obtainable, with notice. <i>Fodder</i>.— } <i>Supplies</i>.—Also obtainable, with notice. Sheep 100; Goats 100.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		6	<p>RANIPET or 12 m. 5 f. A good-sized place. RANIPETTAI Country undulating. <i>p.t.r.</i> (5400). Madras and Southern Mahratta Railway Station. Route No. 34, crosses here. At 1 m. Serukarambur (1,400). 1½ m. Irala- cheri (700). 2 m. Kandupuram (1,100). 3 m. Kaneripall (5900). 4 m. Ramapuram (1900). 5 m. Sreenaithangi (1100) and stone bridge over channel, 25 yds. 5½ m. Poond (1,100). 7½ m. Thankadappenthangal (800). 9½ m. Walla- jah (9,900). 10 m. village (1,900). 11 m. Pinji (2,400). 12 m. Karai (5,400).</p> <p><i>Camping-ground.</i>—About 30 acres W. of road and 50 acres near.</p> <p><i>Water.</i>—For 3,000 men and animals, from wells, a spring channel and river, but supply pre- carious in bad seasons.</p> <p><i>Fuel.</i>—800 pounds.</p> <p><i>Fodder.</i>—Grazing for 200 animals ½ m. distant.</p> <p><i>Supplies.</i>—Grain for 2 000 men and 50 animals for 5 days. Sheep 100; goats 50; country vegetables obtainable.</p>
		7	
		86 m. 6 f.	<p>VELLORE.—16 m. A large town. Country <i>b.p.t.r.</i> (50,000). flat and cultivated. South Indian Rail- way Station. At 1½ m. Palar river, 1½ m. broad, with deep sandy bed, unbridged, cross by the Wenlock Causeway.</p>

AUTHORITIES		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Mili- tary		
COLLECTOR OF NORTH ARCOT, VELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			At 11 m. Perumugai (600). 12 m. Alameluman- gapuram (1,000). 14 m. Sathmacherri (4,000). Route No. 31 crosses here. <i>Camping-ground</i> .—About 50 acres outside the fort and close to the ditch. <i>Water</i> .—Supply unlimited; from tank and Mu- nicipal tap supply. <i>Fuel</i> .—Large quantities available. <i>Fodder</i> .—Nil <i>Supplies</i> .—Large, always available.
		8	PALLIKONDA.—13 m. Country open and level. p. (2,800). Route No. 23 crosses here. At 3 m. Nul- kanga (800). 3½ m. Abdullaguran (600). 6 m. Poigai (1,300). 8 m. Sethuvalai (2,200). <i>Camping-ground</i> .—About 7 acres, E. of town. <i>Water</i> .—Wells in cultivated lands only, for 200 men and animals. <i>Fuel</i> .— } <i>Fodder</i> .— } Nil. <i>Supplies</i> .—A limited quantity at 14 days' notice.
		39 m. 6 f.	
		9	TOTALAM.—8 m. 7 f. Country open and cul- (1,300). tivated. At 3 m. cross Agaram river, 100 yds., bridged. 4 m. Agaramcherai (2,200), 6 m. Kuthamberkam (1,000). 8 m. Madanoor (600). <i>Camping-ground</i> .—About 7 acres, in Kulidiki limits. <i>Water</i> .—From 3 wells, for 200 men and animals, at all seasons. <i>Fuel. Fodder and Supplies</i> .—Nil.
		108 m. 5 f.	

AUTHORITIES.		No. of stages and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		10	AMBUR.—11 m. A small town; country level, with hills on each side. Madras and
		119m. 5f.	<i>p.t.r.</i> S. Mahratta Railway Station. At 6 m. Vada- pudupet, 8½ m. Konmesnaram. <i>Camping-ground</i> .—S. of town and near Railway Station. <i>Water</i> .—For 500 men and 100 animals, from 3 irrigation wells, which fail in dry years. <i>Fuel</i> .—In fair quantities. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 1,000 men and 500 ani- mals. Sheep and goats 100 each.
		11	VANIYAMBADI.—12 m. 4 f. A Municipal
		132m. 1f.	<i>p.t.r.</i> (20,000). Town; country open, hills in distance, cultivation all the way. Madras or S. Mahratta R.S. Route No. 6 joins here. 3 m. Nellkundi (800). 5 m. Kithandupetti (1,200). 6 m. Athurkuppam (2,800). 7 m. a stream, bridged. 8 m. Guna- mudram (800). 8½ m. Valayam Batku (700). <i>Camping-ground</i> .—20 acres, S.-W. of town. <i>Water</i> .—Unlimited from River Vettanbat and wells, not likely to give out in a dry year. River wide and shallow. <i>Fuel</i> .—50 maunds. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 1,000 men and 100 animals for one month. Oxen 200; sheep and goats 1,000 each; vegetables 25 bags per day for one month.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	12	<p>NATTARAMPALLI.—9 m. 6 f. Country, as for <i>p.r.</i> (2,000). previous stage. Pass 3 streams, bridged, and following villages: Nekkundi (800), Chinnamottur (700), Kithandopatti (1,100), Watrampatti (2,800), Bandurampatti (1,600), Pachur (2,000).</p> <p><i>Camping-ground</i>.—10 acres, 1 m. from village, between 135th and 136th milestones.</p> <p><i>Water</i>.—Unlimited; from wells and rivers, but likely to be insufficient in dry year.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 100 animals for 10 days. Oxen, sheep, goats, 500 each.</p>
		141m. 7f.	
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	13	<p>BARGUR.—10 m. 4 f. Country level, with hills in distance. A light railway follows road here. Bungalow maintained by District Board.</p> <p>8½ m. Ankinaganapalli (540). 10½ m. stream, masonry bridge.</p> <p><i>Camping-ground</i>.—About 5½ acres, E. of village, at 147th milestone.</p> <p><i>Water</i>.—Unlimited; springs may be sunk in bed of river a furlong away.</p> <p><i>Fuel</i>.—500 maunds.</p> <p><i>Fodder</i>.—Grazing for 100 animals within ¼ m.</p> <p><i>Supplies</i>.—For 100 men and 50 animals for 4 days; more obtainable if notice given.</p>
		152m. 3f.	
			<p>OR</p> <p>MALAPBADI</p> <p>b. (1,200).</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		14	KRISHNAGIRI.—11 m. 2 f. A small town. b.p.t. (11,700). Country level, but abrupt, rocky hills all round.
		163m. 5f.	Bungalow maintained by District Board. Cross large tributary of River Ponnai, bridged. Route 28 crosses and Route 33 joins here. At 3 m. Kandekuppam (600), 5 m. Varappam (500). <i>Camping-ground</i> .—10 acres, E. of town. <i>Water</i> .—3 wells, for 300 men and 100 animals. <i>Fuel</i> .—200 maunds. <i>Fodder</i> .—Grazing for 200 animals $\frac{3}{4}$ m. away. <i>Supplies</i> .—Grain for 500 men and 100 animals for 3 or 4 days. Oxen 10; sheep 30; goats 30.
		15	KURUBARAPALLI.—7 m. 7 f. Country as for last stage; a hill commences 1 m. higher up. Cross a pass. At 4 m. Bandarappatti (200). $7\frac{1}{2}$ m. Markandeya river, 200 yds., masonry bridge.
		171m. 4f.	<i>Camping-ground</i> .—About $10\frac{1}{2}$ acres, E. of village. <i>Water</i> .—Unlimited; from the river about 3 furlongs away; springs can be dug in a dry year. <i>Fuel</i> .—200 maunds. <i>Fodder</i> .—Grazing for 150 animals $\frac{1}{2}$ m. distant. <i>Supplies</i> .—For 50 men and animals for 1 day. Sheep and goats 5 each.
		16	SHULAGIRI.—9 m. 3 f. Road passes over a succession of ascents and descents. Rocky kopje near the village, country open, partly jungle.
		180m. 7f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	17	<p><i>Camping-ground</i>.—About 15 acres, $\frac{1}{2}$ m. W. village.</p> <p><i>Water</i>.—For 1,000 men and 300 animals from wells and a tank, likely to fail in a dry year.</p> <p><i>Fuel</i>.— } Nil.</p> <p><i>Fodder</i>.— }</p> <p><i>Supplies</i>.—For 1,000 men and 300 animals, for 1 day. Sheep and goats 300 each.</p> <p>HOSUR.—14 m. Road from Shulagiri passes b.p.t. (5,400). over a gradual ascent. Country consists of low hills, with considerable jungle. The Remount Depot is $4\frac{3}{8}$ m. to S.-W. Route No. 27 crosses here. At 6 m. Kamamdoddi (300). 10 m. Perandapalli (500). Here cross Pennar river, 200', unbridged but fordable in dry season.</p> <p><i>Camping-ground</i>.—Good, 24 acres on rocky soil about $1\frac{1}{2}$ m. W. of town, also at the 184th milestone, E. of river and S. of town.</p> <p><i>Water</i>.—For 1,000 men and 300 animals, from 4 tanks close by, but likely to give out in dry season.</p> <p><i>Fuel</i>.—5 tons.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—For 2 days as above. Sheep and goats 300 each.</p>
DEPUTY COMMS. STONE, BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, MANINDUR, BANGALORE.	18	<p>HEBAGOD.—14 m. 1 f. Road turns off at b. (300). $4\frac{1}{8}$ m. to Remount Depot—distance $7\frac{3}{4}$ m. Country undulating, and jungle near village. Cross 2 streams, bridged masonry. At 5 m. Attibele (1,300). $8\frac{1}{2}$ m. Neralur (500). $9\frac{3}{4}$ m. Chandapur (300). $11\frac{1}{4}$ m. Bomasandra (500).</p> <p><i>Camping-ground</i>.—7 acres.</p>

AUTHORITIES.		No. of stages and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
DEPUTY COMMISSIONER, BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Water</i>.—From a tank, for 1,000 men and 500 animals but supply not certain.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing for 400 animals $\frac{1}{2}$ m. away.</p> <p><i>Supplies</i>.—Grain for 200 men and animals. Oxen 200; sheep 130; goats 90.</p>
		10	<p>BANGALORE.—12 m. 7 f. A very large town and military station. Country open and cultivated. Government Seat for the Mysore Province. Headquarters of the Bangalore Brigade. 3 railway Stations (Madras and Southern Mahratta). Main Route No. VI and Route No. 24 cross here. At 2$\frac{3}{4}$ m. Dodtagur (1,000). <i>Camping-ground, supplies and water unlimited.</i></p>
		122m. 7f.	
		20	<p>MADDAVERAM.—10 m. Country undulating and cultivated. Cross Madras and Southern Mahratta Railway at Yeshvantpur. <i>Camping-ground</i>.—5 acres, N. of village. <i>Water</i>.—From tank and wells, at all seasons, for 1,000 men and 500 animals. <i>Fuel</i>.—Nil. <i>Fodder</i>.—Grazing for 200 animals $\frac{1}{2}$ m. away. <i>Supplies</i>.—Nil.</p>
		231m. 7f.	
		21	<p>TABBADDEGUR.—12m. 2f. Country undulating and cultivated. At 1$\frac{1}{2}$ m. cross the Arkavati River, bridged. 3$\frac{3}{4}$ m. Dasampur (300).</p>
		244m. 1f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
DEPUTY COMMISSIONER, TUMKUR.	GENERAL OFFICER, COMMANDING, BANGALORE.	22	<p>4$\frac{3}{8}$ m. Arshankunti (600). 6$\frac{3}{4}$ m. Nelamangala (3,000), <i>b.p.</i> 10$\frac{1}{2}$ m. Budihalli (300). Route No. 39 joins here. <i>Camping-ground.</i>—46 acres, $\frac{2}{3}$ m. from village. <i>Water.</i>—From 2 tanks and wells, at all seasons, for 500 men and 250 animals. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing for 500 animals from $\frac{1}{2}$ m. distant. <i>Supplies.</i>—Nil.</p>
		252m. 3f.	<p>SOMPUR 8 m. 2 f. Country undulating and cultivated; soil red. At 3$\frac{1}{4}$ m. DOBSPET } <i>b.</i> (600). } Kulunahalli (400). 5$\frac{3}{4}$ Bilinkote (500). Route No. 37 joins here. <i>Camping-ground.</i>—49 acres, E. of village. <i>Water.</i>—From wells and a tank, at all seasons, for 1,000 men and 500 animals. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing for 500 animals 1 m. from village. <i>Supplies.</i>—Nil.</p>
DEPUTY COMMISSIONER, BANGALORE DISTRICT.	GENERAL OFFICER, COMMANDING, BANGALORE.	23	<p>TUMKUR.—12 m. 3 f. A town. Country open, well cultivated and undulating, with rocky hills on the right, soil red. Route 18 crosses and Route No. 37 joins here. Madras and Southern Mahratta Railway Station; headquarters of the District. At 4$\frac{1}{2}$ m. Naiorhalli (300). 4$\frac{3}{8}$ m. Chakunbali. 5$\frac{3}{8}$ m. heriballi (450). 7$\frac{1}{8}$ m. Muchachalkuppu (300). 8$\frac{5}{8}$ m. Hyatasandra (2,200).</p>
		264m. 6f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
DEPUTY COMMISSIONER, TUMKUR	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping-ground.</i>—Private ground, about 30 acres.</p> <p><i>Water.</i>—From 2 tanks and 3 wells, unlimited during rains, but scarce in hot weather.</p> <p><i>Fuel.</i>—10 cart loads.</p> <p><i>Fodder.</i>—Grazing available within town limits.</p> <p><i>Supplies.</i>—Grain for 1,000 men and animals for 14 days. Oxen <i>nil</i>; sheep 20; goats 20. Veg-tables 200 pounds.</p>
		24	<p>KORA.—7 m. 2 f. Country open, an extensive plain; much cultivation; wet and dry; soil red. At 4 m. Urakeri.</p> <p><i>Camping-ground.</i>—About 23 acres, S. of village.</p> <p><i>Water.</i>—Unlimited in rainy season, but scarce in summer.</p> <p><i>Fuel, Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Very scarce. Sheep 10; goats 8.</p>
		272m. 0f.	
		25	<p>NELHAL.—6 m. 3 f. Country undulating and stony, with some jungle and cultivation. Police sub-station. Cross a stream, bridged. At 4 m. Thimmarajanahalli. 5 m. Girinayana-halli.</p> <p><i>Camping-ground.</i>—About 35 acres, W. of village.</p> <p><i>Water.</i>—Very limited, and only procurable during rainy season.</p> <p><i>Fuel.</i>—10 cart loads.</p> <p><i>Fodder.</i>—Grazing for 500 animals $\frac{1}{2}$ m. from camp.</p> <p><i>Supplies.</i>—For 500 men and 200 animals for 2 days. Oxen 10; sheep 30; goats 10.</p>
		278m. 3f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
DEPUTY COMMISSIONER, CHITALDROOG.	D. C. TUNKUR. GENERAL OFFICER COMMANDING, BANGALORE.	26	KALLAMBELLA.—10 m. 0f. Road in fair repair; country as for last stage. At $\frac{1}{4}$ m. cross stream, 80 yds., bridged. Route No. 26 joins here.
		288m. 3f.	<i>Camping-ground</i> .—About 27 acres, E. of village. <i>Water</i> .—From 2 tanks and 2 wells, sufficient for 1,000 men and 500 animals in rainy season only. <i>Fuel</i> .—1,000 maunds. <i>Fodder</i> .—Grazing for 800 animals $\frac{3}{4}$ m. distant. <i>Supplies</i> .—For 1,000 men and 500 animals at a month's notice. Sheep 10; goats 8.
		27	SIRA.—7 m. 5f. Road in good repair. An Amaldar's court-house here; an old fort; a good bazaar. Country very dry and stony, with valleys covered with date jungle, undulating, with cultivation at intervals. At 2 m. Codi nala, 52 yds., masonry bridge.
		296m. 0f.	2 $\frac{1}{4}$ Chickkambhalli (1,000). 4 $\frac{1}{2}$ m. Yaliyur (1,000). <i>Camping-ground</i> .—55 acres N.-W. of town. <i>Water</i> .—2 tanks, 5 wells and 1 pond, for 2,000 men and 1,000 animals. <i>Fuel</i> .—1,000 maunds. <i>Fodder</i> .—Nil. <i>Supplies</i> .—For 2,000 men and 1,000 animals at 1 month's notice. Sheep 15; goats 10. Vegetables 600 lbs. at a week's notice.
		28	JAVANGONDANHALLI.—12 m. 6 f. Country open and undulating. At 11 $\frac{1}{4}$ m. stream, 100 yds., bridged masonry.
		308m. 6f.	<i>Camping-ground</i> .—E. of village, 450 square yds. <i>Water</i> .—Unlimited; from river.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
DEPUTY COMMISSIONER, CHITTAIDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.		<i>Fuel.</i> — } Nil. <i>Fodder.</i> — } <i>Supplies.</i> —For 100 men and 500 animals at 1 month's notice. Sheep and goats 6 each.
		29	
		320m. 6f.	HIRIYUR.—12 m. Country open and cultivated. Chief village of the sub-district; an old fort. River is crossed by a bridge. Routes Nos. 26 and 40 join here. At 2½ m. Annesidri (250). 4½ m. Bayanaun (190). 5 m. Kastur-Rangappanhal (588). 8m. Adivala. (992). 8½ m. Gollarhalli (226). <i>Camping-ground.</i> —4 acres N. of village. <i>Water.</i> —For 2,500 men and animals. <i>Fuel.</i> —5,000 lbs. <i>Fodder.</i> —Grazing for 1,000 animals. <i>Supplies.</i> —Grain for 1,000 men and 500 animals for 2 days. Meat supply very limited; country vegetables in rains only.
		30	
		332m 6f.	AYAMANGALAM.—12 m. Country, an extensive plain of black soil, cultivated; cross several streams, bridged. At ¾ m. Metikurke (1,000); 7 m. Gozilah (500). <i>Camping-ground.</i> —11 acres, N. of village. <i>Water.</i> —Supply unlimited. <i>Fuel.</i> —Nil. <i>Supplies.</i> —Grain and fodder for 1,000 men and 500 animals. Meat very limited; vegetables only in rainy season. <i>Note.</i> —The Marikarur Project left channel flows close to the camping ground in stages 29 and 30.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
DEPUTY COMMISSIONER, CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.	31	CHITALDROOG.—12 m. 5 f. Country open and rocky; a hill fort; b.p.t. (7000). Headquarters of the District. At 5 m. cross a stream, bridged. 3½ m. Burujintoppa (1200). 6 m. Palavanballi (800). 7 m. Kudigere (4,000). <i>Camping-ground</i> .—About 5 acres, E. of town. <i>Water</i> .—A well and pipe supply, sufficient for 500 men and animals. <i>Fuel</i> .—800 maunds. <i>Fodder</i> .—Grazing for 1,000 animals 2 m. distant. <i>Supplies</i> .—Grain for 500 men and animals, oxen; sheep; goats 20 each; vegetables 10 maunds.
		32	VIJAPUR.—11 m. 0 f. Country an open plain, (b.) 300. with patches of cultivation. At 8 m. Chinna Hagari river, bridged, fordable except in flood. 1½ m. Muragi (500). 1¾ m. Kurubajehalli (500). 4¾ m. Guttinadu (200). 5¾ m. Margatta (300). 6½ m. Ainhalli (400). 9½ m. Biravara (250). 10½ m. Lakshminagar (650). <i>Camping-ground</i> .—22 acres, N. of village. <i>Water</i> .—Sufficient for 700 men and animals, from 2 wells and 1 <i>nala</i> . <i>Fuel</i> .—Nil. <i>Fodder</i> .—Grazing for 600 animals 2 m. away. <i>Supplies</i> .—Nil.
		33	BRARMASAGAR.—8 m. 2 f. Road in fair (b.) (1250). repair only, country open, so l débris of granite, cultivated. At 6 m. Jinagenala River 110 yds., bridged, fordable, except in flood;

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
DEPUTY COMMISSIONER, CHITALDROOG. GENERAL OFFICER COMMANDING, BANGALORE.			<p>1½ m. Kalkunte (250). 3 m. Hirribennur (400). 3½ m. Chikkbennur (700). 4½ m. Chilangi (650). 6½ m. Kolhal (800). 7½ m. Heggere (400). <i>Camping-ground</i>.—S. of village, about 19 acres. <i>Water</i>.—From tank and wells, for 1,500 men and animals. <i>Fuel</i>.—Nil. <i>Fodder</i>.—Grazing for 50 animals 1 m. away. <i>Supplies</i>.—For 200 men and 100 animals for 2 days. Oxen 10; sheep and goats 20.</p>
		34	<p>ANAGOD.—10 m. 3 f. Country as for last stage. At 3 m. cross Dodahalla stream, bridged and fordable. 2 m. Himmi-hatti (400). 4½ m. Hunasakatty (350). 6½ m. Heppal (700). 8 m. Alwarthi (500). <i>Camping-ground</i>.—64 acres, S.-E. of village. <i>Water</i>.—2 wells and 1 tank, for 1,000 men and 300 animals. <i>Fuel</i>.—10 tons, with notice. <i>Fodder</i>.—Grazing for 800 animals 1 m. distant. <i>Supplies</i>.—Grain for 100 men and animals for 3 days. Sheep 50; goats 25.</p>
		35	<p>DAVANGERE.—10 m. 1 f. A town, country b.p.t.s. (10,000) open; stony, and cultivated. Madras and Southern Mahratta Railway station. Cross 3 <i>nalas</i>, bridged. At 2 m. Kogannure (200). 5 m. Kalpunally (200). 7½ m. Avargiri (600). <i>Camping-ground</i>.—20 acres E. of town, but the ground at Avargiri is usually used. <i>Water</i>.—From <i>nala</i>, tank and well, for 500 men and 300 animals.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV.
Civil.	Military.		
DEPUTY COMMISSIONER, CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.	36	<p><i>Fuel</i>.—20 tons at short notice.</p> <p><i>Fodder</i>.—Grazing for 1,000 animals 2 m. distant.</p> <p><i>Supplies</i>.—Available in fair quantities. Sheep 50; goats 25.</p>
		393m.7f.	<p>HARIHAR.—8m. 6f. A large village on the Tungabhadra. Country open and cultivated. Madras and Southern Mahratta Railway Station. At 4½ m. Bathi (770).</p> <p><i>Camping-ground</i>.—¾ sq. mile N. of village; also 15 acres in vicinity.</p> <p><i>Water</i>.—Unlimited.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 300 men and animals for 3 days. Sheep and goats 60 each. Vegetables limited.</p> <p>Route No. 42 crosses here.</p> <p>For continuation see Vol. XI, Indian Route Book.</p>

MAIN ROUTE No. IV (1).
FROM TIMIRI TO KAVERIPAK.

Cross the Palar river, unbridged; road metalled and bridged, except over the Palar; practicable at all seasons.

DIRECTION.—NORTH.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV (1).
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C. MADRAS DISTRICT.	..	TIMIRI.—
		1	^{p.} KAVERIPAK, near—9 m. 1f.
		9m. 1f.	WOCHERICHAT-TRAM.—p.

MAIN ROUTE No. IV (2).
FROM WALLAJAPET TO NILAKANTRAPET.
Metalled and bridged, practicable at all seasons.
DIRECTION.—NORTH BY EAST.

COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C. MADRAS DISTRICT.	..	WALLAJAPET, near RANIPET.
		1	NILAKANTRAPET.—8m. 0f.
		8 m. 0f.	

MAIN ROUTE No. IV (3).
FROM WALLAJAPET TO WALLAJAH ROAD RAILWAY STATION.
Metalled and bridged; practicable at all seasons.
DIRECTION.—NORTH.

COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C. MADRAS DISTRICT.	..	WALLAJAPET.—
		1	WALLAJAH ROAD.—4 m. 0 f.
		4 m. 0f.	Railway Station. p.t.r.

MAIN ROUTE No. IV (4).

FROM NEAR RANIPETTAI TO 111TH MILE OF ROUTE No. 34(2).

Cross the Poiney river, bridged; road metalled and bridged; runs along the left bank of the Poiney.

DIRECTION.—NORTH BY EAST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV (4).
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C. MADRAS DISTRICT.	..	Near RANIPETTAI— <i>p.t.r.</i>
		1	111th mile stone No. Route No. 34(2).—13 m. 1f.
		13m. 1f.	

MAIN ROUTE No. IV (5).

FROM MAILPATI RAILWAY STATION TO LALAPET.

Road metalled and practicable at all seasons.

DIRECTION.—NORTH-WEST.

COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C. MADRAS DISTRICT.	..	MAILPATI Railway Station <i>p. r.</i>
		1	LALAPET.—9m. 2f. <i>Vide</i> Route No. 37, Stage No. 12.
		9 m. 2 f.	

MAIN ROUTE No. IV (6).

FROM AMBUR TO SATGHAR.

Cross the Peria Godda river, unbridged; road metalled.

DIRECTION.—NORTH.

COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C. MADRAS DISTRICT.		AMBUR.— <i>p.t.r.</i>
		1	SATGHAR.—12m. 1f.
		12m. 1f.	

MAIN ROUTE No. IV (7).

FROM TRUNK ROAD TO KETHANDAPATTY RAILWAY
STATION.

This road is in a bad state.

DIRECTION.—SOUTH-EAST.

AUTHORITIES		No. of stage and total distance.	MAIN ROUTE NO. IV (7).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT.	..	TRUNK ROAD.—
		1	KETHANDAPATTY—0 m. 4 f.
		0 m. 4 f.	Railway Station. r.

MAIN ROUTE No. IV (8).

FROM KUNDARAPALLI TO VEPANAPALLI.

A gravelled road, practicable at all seasons.

DIRECTION.—NORTH.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT.	..	KUNDARAPALLI.
		1	VEPANAPALLI—10 m. 0 f.
		10 m. 0 f.	p.

MAIN ROUTE No. IV (9).
FROM SHULAGIRI TO MALUR.

DIRECTION.—NORTH NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV (9).
Civil.	Military.		
D. C. OF KOLAR, KOLAR.	COLLECTOR OF SALEM, SALEM. G. O. C., MADRAS DISTRICT.	..	SHULAGIRI.— <i>b.</i>
		1	BERIGAI.— <i>p.</i>
		2	MALUR.—25. m. 0f. <i>b.p.t.r.</i>
		25 m. 0f.	

MAIN ROUTE No. IV (10).
FROM SOMPUR TO KORATAGERE.

An unbridged road, practicable for carts in the dry season only.
Devaroydrug is about 4 miles off this line.

DIRECTION.—NORTH.

D. C. OF TUMKUR, TUMKUR.	D. Y. COMR. OF MYSORE DISTRICT. G. O. C., BANGALORE.	..	SOMPUR.— <i>b.</i>
		1	KORATAGERE.—22m. 0f. Cross the Jaya- mangali and Swarna- mukhi rivers, un- bridged.
		22 m. 0f.	<i>p.</i>

MAIN ROUTE No. IV (11).

FROM TUMKUR TO DEVAROYDRUG.

A gravel road, practicable at all seasons for carts to within 3 miles of the fort, in which is a small village; the road up hill to the fort is not practicable for laden carts.

DIRECTION.—EAST-NORTH-EAST.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV (11).
Civil.	Military.		
DY. COMR. OF TUMKUR.	G. O. C. BANGALORE.	..	TUMKUR.— <i>b. p. t. r.</i>
		1	DEVAROYDRUG.—10 m.
		10 m.	

MAIN ROUTE No. IV (12).

FROM SIRA TO THE BOUNDARY AT CHIRATANHALLI.

DIRECTION.—NORTH.

DEPUTY COMMISSIONER OF TUMKUR.	G. O. C., BANGALORE.	..	SIRA.— <i>b. p. t.</i>	} Camping-ground and water available.
		1	NADUR.—9m. 4f.	
		9m. 4f.		
		2	HULIKUNTE.—6 m. 0f.	
		15m. 4f.		
		3	CHIRATANHALLI.—9m. 4f.	
		25 m. 0f.		

MAIN ROUTE No. IV (13).
FROM KATHAVAHAL TO SOVAINAHALLI.

A good road, for the most part metalled, but not completely bridged.

DIRECTION.—NORTH.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. IV (13).	
Civil.	Military.			
DEPUTY COMMISSIONER OF CHITALDROOG. COLLECTOR OF BELLARY.	G.O.C., BANGALORE.	..	KATHAVAHAL	Water scarce in hot season; camping-ground available after crops are cut.
		1	BASTIHALLI—8m. 0f.	
		8 m. 0f.		
		2	KANKUPPA.—11 m. 0f.	
		19 m. 0f.		
		3	UJJINI.—13 m. 6f.	
		32m. 6f.		
		4	KOTTURU.—8m. 4f. p.	
		41m. 2f.		
		5	ITTIGI —12m 0 f. Cross the China Hagari river, unbridged.	
		53m. 2f.		
		6	SOVAINAHALLI 18m. 0f.	
		71m. 2f.		

MAIN ROUTE NO. V.

TUTICORIN TO ALIPUR.

(PORTION FROM TUTICORIN TO RAMBHA.)

Length.—1,052 miles.

96 stages.

Authority and date.—General * Officer Commanding, 9th Division, January, 1919.

Epitome.—General direction of the road is north as far as Ongole, and thence north-east. The road as far as Madura is metalled and bridged, with the exception of the rivers Vaipar and Gundar, which are however practicable at all seasons, being fordable, except when in heavy flood for a day or two after heavy rain. Thence to Trichinopoly it is metalled and bridged throughout. From Trichinopoly to Madras it is metalled, except between Valikondapuram and Wallingambadi, where it is gravelled; and, with the few exceptions noted, all streams are bridged. High floods in the Palar, Penner, Gudelum, Mallatur and Vellar rivers now and then interrupt traffic for a day or two at a time, but the road may be said to be practicable for carts at all seasons.

From Madras to Ongole the road will be found described under Route III. From Bezvada to Rambha the road runs practically parallel to the Bengal-Nagpur Railway.

Beyond, in the Kistna district, it is metalled and practicable for all arms at all seasons as far as Gannaveram; thence to Rajahmundry it is practicable for carts during 9 months of the year, impracticable during the rains, owing to its being intersected by streams; troops should then be moved either by rail or canal, which both run parallel to the road.

From Rajahmundry to Rambha the road is metalled and bridged throughout, with the exception of the few rivers noted: these are unfordable only during freshets, which seldom occur and do not last long. The road is fit for motors wherever mentioned.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE V.	
Civil.	Military.			
COLLECTOR OF MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT.			11 m. Melakarandai (1,225), stream, unbridged, fordable. <i>Camping-ground</i> .—30 acres, <i>Water</i> .—From 20 wells and 1 cept in rains. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain very limited; goats 400; vegetables in small	town. Route joins here. 5 vds. × 770 × 1507 yds. ated by the 1500 animals.
		5	ARUPPU-KOTA.—13 m. 0f. p.t. (18,560). sildar and Sub-Magistrate. sary and inspection shed. (5,840). 9 m. Valvangi, ham (3,815). <i>Camping-ground</i> .—10 acres, other spaces available. <i>Water</i> .—From Paliyampatti, about 1m. off, plentiful. On available in the town. <i>Fuel</i> .—50 tons. <i>Fodder</i> .—Scarce and obtaina market.	1500; sheep very limited load metallad velled: fit tors. Coun-oute No. 5 m(255). 8m.
		53m. 1½f.		
		6	KARIAPATI.—12 m. 0f. branch of Gund ds. wid	men and ani- 5 m. r at 1 week's
		65m. 1½f.		Road fit for m. Tagaveeg m, 100 yds., 20 yds. × 88 300 men and

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.	3	<p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 300 men and animals with 1 week's notice. Sheep 20; goats 20.</p>
		26m. 5½f.	<p>ETAIYAPURAM.—9m. 5½f. A small town. p.t.(8,193). Road fit for motors. Cross 6 <i>na-las</i>, bridged. A metalled road 9½ m. long runs from here to Koilpati on Route No. 10. 2. m. Sholapuram (1,296). 3 m. Ethappanaitenpatti (400). 6. m. Kilaical (2,060).</p> <p><i>Camping-ground</i>.—S. of town, 385 yds. × 154, yds., also 2,200 yds. × 800 yds. near.</p> <p><i>Water</i>.—1 tank, for 500 men and 200 animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—50 acres grazing for 200 animals 2 m. from the town.</p> <p><i>Supplies</i>.—Grain for 500 men and 200 animals for 3 days. Oxen 200; sheeps 600; goats 400.</p>
COLLECTOR OF MADURA.		4	<p>VEMPUR.—13 m. 4f. Road fit for motors. (1,801). This place is attached to the Satur Sub-District, Tinnevelly District, and ad-joins a big village named Nagalapuram, where supplies are plentiful. 3 m. Sindala Karai (819); cross stream, 35 vds., bridged, then one 75 vds., unbridged and fordable. 4 m. Daraiswamiapuram (210). 5 m. cross 3 streams, unbridged, tunnelled, fordable. 6 m. Kottor-Karuppaswami and 3 hamlets (combined 1,661). 7 m. Vankar river, 480 vds., unbridged, fordable in dry season, no boats available. 8 m. Tappathi (610). 10 m. cross small streams, one only bridged, all fordable.</p>
		40m. 1½f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.		<p>11 m. Melakarandai (1,225), 13 m. 0f. Cross stream, unbridged, fordable. <i>Camping-ground</i>.—30 acres, N. of village. <i>Water</i>.—From 20 wells and 1 tank; scarce, except in rains. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain very limited. Sheep 600; goats 400; vegetables in small quantities.</p>
		5	<p>ARUPPU-KOTA.—13 m. 0f. Road fit for motors. Headquarters of the Deputy Tahsildar and Sub-Magistrate. There is a Dispensary and inspection shed. 5 m. Pandalgudi (5,840). 9 m. Valvangi, hamlet of Settikurichi (3,815). <i>Camping-ground</i>.—10 acres, N. of town, and other spaces available. <i>Water</i>.—From Paliyampatti, 1 tank and 1 well about 1m. off, plentiful. Only a small amount available in the town. <i>Fuel</i>.—50 tons. <i>Fodder</i>.—Scarce and obtainable at Monday market.</p>
		53m. 1½f.	
		6	<p>KARIAPATL.—12 m. 0f. A moderate-sized village. Road fit for motors. At 8m. cross a branch of Gundar river, unbridged. River 110 yds. wide where crossed, fordable, boats available, each holds 5 or 6 men. 2 m. Valayampatti (4,500). 7 m. Kalkurichi (1,320). <i>Camping-ground</i>.—Nil</p>
		65m. 1½f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT.			<i>Water.</i> —4 wells and 2 channels. <i>Fodder and Fuel.</i> —Nil. <i>Supplies.</i> —Grain for 500 men for 2 days and 100 animals for 1 day. Oxen 20; sheep 50. Vegetables obtainable. About 50 carts can be had on hire at one day's notice.
	7	72m. 1½ f.	PARAIPATTI.—7 m. Of. Road fit for motors. (1,100). Police station here. Cross Gundar river, unbridged, 68 yds. wide, close to Kariapati, fordable, except in rains. 1½ m. Manthiyodia (400). <i>Camping-ground.</i> —2 acres S. of, and 3 acres E. of village. <i>Water.</i> —1 tank and 2 wells. <i>Fuel and Fodder.</i> —Nil. <i>Supplies.</i> —Very scarce; sheep 500; goats 100. About 10-15 carts are available for hire.
	8	82m. 3¼ f.	MADURA.—10 m. 2f. A large and populous town, road fit for b.p.t.r.(134,130). motors. Cross Ciuthamal and Vaigai rivers, bridged. 1½ m. Eliyarpatti (560), 2¼ m. Volayameulam (1,340). 3½ m. Athangudi (950), 6¼ m. Ayanpappakundi (790), 6¼ m. Avaniapuram (4,170). Headquarters of Collector. South Indian Railway Station. Route No. 6 crosses here. <i>Camping-ground.</i> —30 acres, N. of town and more in the vicinity. <i>Water.</i> —For 1,000 men and animals. <i>Fuel.</i> —10 tons daily.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Milit- tary.		
COLLECTOR OF MADURA.			<p><i>Fodder.</i>—Grazing for 1,000 animals. <i>Supplies.</i>—Grain for 1,000 men and animals throughout the year. Oxen 500 (on Thursdays only); sheep 250; goats 150. Vegetables for above numbers on Thursdays and Sundays only.</p>
		9	CHITTAMPATL.—9 m. 0f. Road fit for motors, pass low rocky hill at 1½ m. Cross Periyar irrigation channel, bridged. Cross the Vaigai river, unbridged, 350 yds. wide, by stone causeway and a large bridge (masonry); floods run down in a day or two. At 3½ m. Athangudi (950). <i>Camping-ground.</i> —Nil. <i>Water.</i> —From the Periyar canal, except from August to February, also 2 tanks and 1 well. <i>Fuel.</i> —Nil. <i>Fodder.</i> —In very small quantities. <i>Supplies.</i> —Procurable from Madura at a day's notice.
		91m. 3½f.	
GENERAL OFFICER COMMANDING, MADRAS DISTRICT.		10	MELUR.—8 m. 1f. Road fit for motors. Country cultivated. Roads to Shiva- gunga and Negapatam branch off here. Route No. 7 joins here. At 3 m. Narasingampatt (2,469), Thekutheru (2,530). <i>Camping-ground.</i> —About 10 acres E. of Melur-Kottampatty road, and about 20 acres additional ground available in the vicinity. <i>Water.</i> —From ponds and tanks, for 500 men and 300 animals, at all seasons.
		99m. 4½f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF MADURA.	GENERAL OFFICER COMMANDING, MADRAS.		<p><i>Fuel</i>.—10 tons.</p> <p><i>Fodder</i>.—Grazing in non-cultivation season only.</p> <p><i>Supplies</i>.—Grain for 1,000 men for 4 days: and 500 animals for 1 day. Oxen 20; sheep 40; goats 10. Vegetables for 500 men on Mondays, other days for 100 men.</p>
		11	<p>KOTTAMPATTY.—14 m. 0f. Road fit for motors. Route No. 11 crosses here. Cross 2 streams, unbridged, fordable. At 4 m. Kumbapatti (2,395), 9 m. Manapatti (3,820), 7 m. Vanjiragarum (2,300), 6 m. Karangara Kudi (2,900).</p> <p><i>Camping-ground</i>.—N.-W. of Travellers' Bungalow. The compound of this place will take 100 men.</p> <p><i>Water</i>.—For 500 men and 200 animals, from tanks, wells and the Palar river, except in the dry season, when the supply is insufficient even for the villagers.</p> <p><i>Fuel</i>.—Unlimited; from Forest Reserves.</p> <p><i>Fodder</i>.—Grazing only, in Forest Reserves 3 m. from village, for 500 animals.</p> <p><i>Supplies</i>.—Grain for 100 men and 50 animals for 1 week. Sheep 50; goats 20. Vegetables very limited.</p>
		113m. 4½f.	
COLLECTOR OF TRICHINOPOLY.		12	<p>THUVARANKURICHI.—11 m. 1f. Road b.p. (2,000). gravelled, fit for wheeled transport. Country cultivated. At 4 m. Palar river, 220 yds., unbridged, fordable. 7 m. Athligarum (500). 10 m. Pallaputti (300).</p>
		124m. 5½f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.		<p><i>Camping-ground</i>.—6 acres, S. of village.</p> <p><i>Water</i>.—From tanks and wells, for 4,000 men.</p> <p><i>Fuel</i>.—Scarce.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 100 animals for 3 days. Oxen 400; sheep and goats 2,000 each.</p>
		13	<p>KOILPATTL.—12 m. 1 f. Road gravelled, fit for wheeled transport.</p> <p>Country jungly.</p>
		6½ f.	<p>3 m. Yagapuram (500), cross stream, unbridged, fordable. 4 m. Kallapatti (200). 5 m. Sattapatti (300). 8 m. Paluvangi (500). 9 m. Mettupatti (300). 10 m. Magulipatti (200).</p> <p><i>Camping-ground</i>.—1 acre, W. of village.</p> <p><i>Water</i>.—From 3 wells and 1 tank, for 500 men.</p> <p><i>Fuel</i>.—Scarce.</p> <p><i>Fodder</i>.—Grazing, 7½ acres about ¼ m. from Camp.</p> <p><i>Supplies</i>.—Grain Nil. Oxen 20; sheep and goats 50 each.</p>
		14	<p>VIRALIMALAL.—8 m. Road fit for motors. Country open and cultivated. Deputy Tahsildar's station and dispensary.</p> <p>3 m. Nodambalur (550). 6½ m. Viralur (1,400).</p> <p><i>Camping-ground</i>.—3 acres, N.-W. of village.</p> <p><i>Water</i>.—From 3 tanks and 3 wells; unlimited, except in dry weather.</p> <p><i>Fuel</i>.—½ ton daily.</p> <p><i>Fodder</i>.—Grazing for 800 animals in rains.</p> <p><i>Supplies</i>.—Unlimited; grain from Trichinopoly, with notice. Oxen 75; sheep 200; goats 30.</p>
		144 m. 6½ f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT.		15	NAGAMANGALAM.—8 m. 6f. Road fit for wheeled transport. Country open and cultivated. At 4 m. Erasamayagampatti, 6 m. Kumbakuruchi, 8 m. Alundur (2,300). <i>Camping-ground</i> .—5½ acres, N. of village. <i>Water</i> .—For 100 men and 500 cattle, from 2 tanks and 5 wells. There is also a spring under a rock in Pudukotah village about ¼ m. S.-E. Only half the above numbers can be watered in the dry season. <i>Fuel</i> .—50 cartloads, with 1 month's notice. <i>Fodder and Supplies</i> .—Nil.
		153 m. 4½ f.	
		16	TRICHINOPOLY.—9 m. 4f. Road and country <i>b.p.t.r.</i> (123,700) as for last stage. A 1911. large town. Headquarters of Collectorate; Military Station, with 1 Indian Infantry Regiment; headquarters of S. Indian Railway lines to Madras, Negapatam-Tuticorin-Erode. Routes Nos. 9, 12 and 14 cross and Route No. 17 joins here. At 3 m. Mamkandam (800). 4½ m. Parivarjur (95). 6 m. stream, 200 yds; brick-bridged. 7 m. Yeddamalalpatti (2,484). 7½ m. Pudur. <i>Camping-ground</i> .—2 sq. miles. <i>Water</i> .—Unlimited. <i>Fuel</i> .—Cut, unlimited. <i>Fodder</i> .—400 acres of grazing 5 m. from Town. <i>Supplies</i> .—Unlimited.
		163 m. 0½ f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.	17	SAMAYAPURAM.—9 m. 0f. Road fit for wheeled transport. <i>b.p.</i> (2430). Country open and cultivated, scrub jungle in parts. Sub-post office in Ethampalli, a hamlet $\frac{1}{2}$ m. distant; English Church and a Mission building, with a deep well of good water there. Between Trichinopoly and Samayapuram, there are the rivers Cauvery (2 m.) and Coleroon (4 m.), four irrigation channels and one jungle stream called Uppar: these have bridges which can carry guns, none of these are perennial. At $4\frac{1}{2}$ m. Tiruvanakoil (5,000). 6 m. Kothur (1,200).
		172 m. 0 $\frac{1}{2}$ f.	<i>Camping-ground.</i> —5 acres, S. of village. <i>Water.</i> —Unlimited, except in dry seasons, when only 1,000 men and animals can be watered. <i>Fuel.</i> —Plentiful. <i>Fodder.</i> —From Trichinopoly. <i>Supplies.</i> —Very limited in village, but unlimited quantities can be obtained from Trichinopoly at 1 month's notice.
		1—18	
		186 m. 0 $\frac{1}{2}$ f.	PADALUR.—14 m. 0f. Road fit for wheeled transport. Country open and cultivated, but wooded here and there. At 3 m. stream and at 14 m. stream, both bridged stone, and can carry guns. 4 m. Trungalur (2,300). 8 m. Sirukanur (2,140). <i>Camping-ground.</i> —10 acres, S. of villages.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT.			<p><i>Water.</i>—Unlimited; from 4 wells and 1 tank all round the camping ground; also from a tank and the river Nandyar, in rainy season.</p> <p><i>Fuel.</i>—10 cut cartloads at 7 days' notice.</p> <p><i>Fodder.</i>—Grazing in forest 1 m. from village.</p> <p><i>Supplies.</i>—Very scarce. Sheep 5 daily; goats 15 daily. Vegetables procurable.</p>
		19	<p>TURAIMANGALAM.—10 m. 4 f.—Road fit for wheeled transport. Country open and cultivated. Asur, 10 m. River Odar 3 m. from camping ground, fordable at all seasons. Cross 4 streams, bridged.</p> <p><i>Camping-ground.</i>—About 10 acres, S. of village.</p> <p><i>Water.</i>—Unlimited; from tanks and wells, except in a dry year, when only 1,500 men and cattle can be watered.</p> <p><i>Fuel.</i>—Up to 50 tons can be cut.</p> <p><i>Fodder.</i>—200 acres of grazing within 2 m.</p> <p><i>Supplies.</i>—Unlimited; from Perambular, 1½ m., at 1 week's notice.</p>
		196 m. 4½ f.	
		20	<p>VALIKONDAPURAM.—8 m. 0 f. Road fit for wheeled transport. Country open and cultivated, rocky here and there. At 1½ m. Ranjankudi, with a Post Office and where weekly market is held.</p> <p><i>Camping-ground.</i>—2 acres, S. of village.</p> <p><i>Water.</i>—Unlimited; from Koneriar river, in which spring channel would have to be dug in dry years.</p> <p><i>Fuel.</i>—Scarce.</p>
		204 m. 4½ f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.	21	<p><i>Fodder</i>.—Grazing for 1,000 animals in Forest Reserve, 1 m. from village.</p> <p><i>Supplies</i>.—Unlimited; from neighbouring villages and from Perambalur 8 m. off, at 15 days' notice.</p>
		212 m. 6½ f.	<p>THOLUDUR.—8 m. 2 f. Road fit for motors. b., (2,400). Country open and cultivated in parts, no jungle. At 4 m. cross the Chinnar river, and at 8 m. the Veller river, unbridged, which are not perennial and are fordable, except in winter for a few hours, when in flood. Pass Thirumandurai (1,600).</p> <p><i>Camping-ground</i>.—15 acres on each side of main road.</p> <p><i>Water</i>.—Unlimited; from Vellar river at all seasons.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing for 500 animals, m. distant.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 200 animals at 15 days' notice. Sheep 100; goats 100.</p>
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.	22	<p>KALUDUR or.—10 m. Road fit for motors.</p>
		222 m. 6½ f.	<p>KADIYUR At 3 m. Eluth (2,500) (1,350). 4 m. Venurganur (600); stream, bridged, fordable; 7 m. Mapadayur (2,100). Kallur (650).</p> <p><i>Camping-ground</i>.—4 acres E. of village</p> <p><i>Water</i>.—From a pond, tank and 2 wells, unlimited at all seasons.</p> <p><i>Fuel, Fodder, Supplies</i>.—Grain nil. Sheep 50, goats 50.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.	23	ASANUR.—10 m. 3½ f. Metalled road, fit for motors, but the bridges at Mayar and Eranji are broken. Country open and cultivated. 2½ m. pass Vapur, where Route No. 32 crosses. 3 m. Keppur (1,300). 5 m. Sepakkam, (2,400). Cross Manimukdanadi, 60 yds., unbridged.
		233 m. 2 f.	<i>Camping-ground.</i> —1½ acres, E. of village. <i>Water.</i> —From a pond and irrigation wells, for 1,500 men and 1,000 animals, supply is likely to fail in dry weather. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing for 1,000 animals within 3 m. <i>Supplies.</i> —For 500 men and 150 animals at 14 days' notice. Sheep 50; goats 25.
		24	KIRANUR or—8 m. 2 f. Road fit for ULUNDURPET, motors. Country b.p., (3,800). cultivated on one side of road, and jungly on the other. Routes 19 and 31 cross here. At 4 m. Pali (1,250).
		241 m. 4 f.	<i>Camping-ground.</i> —10 acres, 1 m. E. of village, with good cart track leading to it. <i>Water.</i> —From a pond and irrigation wells, for 1,000 men and 500 animals. Supply is likely to give out in dry weather. <i>Fuel and Fodder.</i> —Nil. <i>Supplies.</i> —For 300 men and 100 animals for a week at a time. Sheep 5.
		25	ARASUR.—14 m. Road fit for motors. Country flat, well cultivated near villages. Cross the Gudalam river, unbridged, fordable at all times.
		255 m. 4 f.	

AUTHORITIES.		No. of stage and total distance	MAIN ROUTE NO. V.
Civil.	Milit- tary.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.		<p><i>Camping-ground.</i>—3 acres, W. of road.</p> <p><i>Water.</i>—Unlimited; from 2 ponds and Mallatur Spring Channel at all seasons.</p> <p><i>Supplies.</i>—For 500 men, and 100 animals at 10 days' notice.</p>
		26	<p>VILLUPURAM.—9 m. 0 f. Road fit for wheeled <i>b.p.r.</i>, (11,090). transport (in bad condition, 1914).</p>
		264 m. 4 f.	<p>Country open and cultivated. Headquarters of sub-district. S. Indian Railway (Junction) Station. Cross the Pennar and Mallatur rivers, unbridged. Railway bridge over river Pennar. Routes Nos. 23 and 33 cross here. At 7 m. Valurdureddy (1880).</p> <p><i>Camping-ground.</i>—1½ acres at 1 m. N.-W. of town.</p> <p><i>Water.</i>—From 3 tanks and 9 wells, for 2,000 men and 1,000 animals; tanks run dry in bad seasons.</p> <p><i>Fuel.</i>—100 tons at 7 days' notice.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for above numbers for 7 days with 2 weeks' notice. Oxen 25; sheep 50; goats 25. Vegetables 75 lbs. per day at 7 days' notice.</p>
		27	<p>VIKRAVANDI.—7 m. 4 f. Road in good <i>b.p.r.</i> (3,000). repair, fit for wheeled transport. Country flat and cultivated. At 4 m. Mandiampalikam (1,400). 6½ m. Vikravandi river, 300 yds., bridged. S. Indian Railway Station. Routes Nos. 23 and 33 join here.</p>
		272 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military		
COLLECTOR OF SOUTH ARCOT, CUDDALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT.			<p><i>Camping-ground.</i>—20 acres, N. of village. <i>Water.</i>—For 1,000 men and 500 animals, from the river Varashnadi and 4 wells. The river runs dry in exceptionally bad season. <i>Fuel.</i>—None stacked. <i>Fodder.</i>—Grazing for 200 animals 1 m. from village. <i>Supplies.</i>—Grain for 500 men and 250 animals at 14 days' notice.</p>
		28	<p>WALLANGAMBADI.—7 m. 7 f.—Road fit for (670). motors. At 4 m. cross the Sankara Parani river, 180 ; at 5 m. Tandiyar river, 150', both bridged. At 6 m. Sendoor (1,550). <i>Camping-ground.</i>—6 acres, N.-E. of village. <i>Water.</i>—For 1,000 men and 500 animals, from a pond, which only fails in very bad years. <i>Fuel, Fodder and Supplies.</i>—Scarce.</p>
		279 m. 7 f.	
		29	<p>SARAM.—12 m. 4 f. Road fit for motors. (1,560). Country jungly here and there. At 8 m. pass Tindivanam (6,400), South Indian Railway Station, where Route No. 5 joins and Route No. 36 crosses. Cross the Kondanur rivers unbridged. <i>Camping-ground.</i>—10 acres. S. of village. <i>Water.</i>—For 1,000 men and animals, from a pond, which only fails in a very bad season. <i>Fuel and Fodder.</i>—Nil. <i>Supplies.</i>—Oxen 1,200 ; sheep 200 ; goats 100.</p>
		292 m. 3 f.	

AUTHORITIES		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SAIDAPET.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.	30	ACHARAPAKAM.—12 m. 0 f. Road fit for wheeled transport. <i>b.p.r.</i> , (1,590). Country rocky and cultivated. At 7 m.
		304 m. 3 f.	a <i>nāla</i> , bridged. At 8 m. Perumbair (1,470). <i>Camping-ground</i> .—Good, 15 acres, W. of village. <i>Water</i> .—From a tank and <i>nāla</i> , for 500 men and 200 animals at all seasons. <i>Fuel and Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 500 men and 50 animals for 10 days. Oxen 200; sheep 100; goats 30. Vegetables in small quantities.
		31	KARUNGULI.—10 m. 6 f. Gravelled road, <i>b.p.</i> , (4,380). fit for wheeled transport. Country open and cultivated, soil gravelly. At 8½ m.
		315 m. 1 f.	Madurantapur (6,442), 9½ m. Kallar river, bridged, fordable in hot weather. <i>Camping-ground</i> .—Nil. <i>Water</i> .—From 2 tanks and wells, for 500 men and animals. <i>Fuel and Fodder</i> .—Nil. <i>Supplies</i> .—For 400 men and 200 cattle at 1 week's notice.
		32	ATHUR.—15 m. 4 f. Road fit for wheeled transport. Country open and cultivated at first, then barren. The country is flat as far as the river, hills on the left of the road, then at 12½ m. pass Madurantakam Railway Station. Cross the Palar river, unbridged, 2 boats for 10 men each. <i>Camping-ground</i> .—35 acres. <i>Water</i> .—From a well and the Palar river, for 2,500 men and 2,000 cattle.
		330 m. 5 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SAIDAPET.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT.		<p><i>Fuel</i>.—From Chingleput.</p> <p><i>Fodder</i>.—100 acres grazing within 1 m.</p> <p><i>Supplies</i>.—Grain for 200 men and 500 animals for 6 months at 10 days' notice. Sheep 100; goats 50. Vegetables available.</p>
		33	<p>GUDUVANCHERI.—16 m. 0 f. Road fit for <i>p.r.</i>, (893). wheeled transport. Country open and cultivated, a few hills. S. Indian Ry. Station. At 2½ m. pass Chingleput Railway Station on the Chingleput-Conjeeveram road close to the Palar river, where Route No. 37 crosses. 4 m. Prelipakam (1,020). 6 m. Paranur (300). 8 m. Singaperumallai (680). 12 m. Kallairgolly (530). 15 m. Thylavaram (170).</p> <p><i>Camping-ground</i>.—15 acres.</p> <p><i>Water</i>.—From a well in camping ground, for 2,000 men and 1,000 animals, except in a dry year, when the supply is more limited; also a pond.</p> <p><i>Fuel</i>.—From Forest adjoining village.</p> <p><i>Fodder</i>.—100 acres grazing within 1 m.</p> <p><i>Supplies</i>.—For 3,000 men and 200 animals for 3 months at 15 days' notice. Sheep 100; goats 100.</p>
		346 m. 5 f.	
		34	<p>St. THOMAS'.—12 m. 2 f. Metalled road, fit for wheeled transport. Country hilly and wooded. S. Indian Railway Station here. At 9½ m. pass Pallavaram, a military Cantonment and <i>r.s.</i> At 6¼ m. pass Vandalur, S. Indian Railway Station.</p>
		358 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.	
Civil.	Military.			
COLLECTOR OF CHINGLEPUT, SAIDAPET.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		7 m. Selaiyur. 8 m. Sitlapakam. 8½ m. Gollamchavadi. <i>Camping-ground.</i> —Military Cantonment, 329 acres. <i>Water.</i> —Plentiful : from wells and the Adyar river, N.-W. of Cantonment. <i>Fuel.</i> —Cut, abundant. <i>Fodder.</i> —Obtainable with notice. <i>Supplies.</i> —Grain for 1,000 men and 500 animals at 2 days' notice.	
COLLECTOR OF MADRAS.		35	MADRAS.—8 m. 4 f. A large town and Cantonment. Headquarters of Madras Presidency. Road fit for motors. Country partly open and partly cultivated. At 3 m. stream, 132 yds., bridged. Saidapet (15,600) <i>Camping ground.</i> —On the Fort glacis, E. of town. The Island, W. of Mount Road, is also available. <i>Water.</i> —Pipe supply. <i>Fodder.</i> —Grazing for 500 animals on Fort glacis. <i>Supplies.</i> —Unlimited. A great number of sheep, goats and oxen are slaughtered daily. 20 cartloads of vegetables.	
COLLECTOR OF CHINGLEPUT, SAIDAPET.		367 m. 3 f.		
		36	TALKAN'S.—11 m. CHATTRAM.	} For remarks see Main Route No. 3, stages Nos. 1 to 6.
		378 m. 3 f. 37	PUDUVAYIL.—20 m. P.	
	398 m. 3 f.			

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	38	ARAMBAKKAM.—16 m. 2 f. <i>r.</i>
		414 m. 5 f.	
		39	SULURPETA.—13 m. 4. f. <i>p. r.</i>
		428 m. 5 f.	
		40	DHORAVARI.—9 m. 2. f. CHATTRAM.
		437 m. 3 f.	
		41	WOJILLI.—15 m. 1. f. <i>b.</i>
		452 m. 4 f.	
		42	GUDUR.—11 m. 1 f. <i>b. p. t. r.</i>
		463 m. 5 f.	
		43	VENKATACHA.—12 m 2 f. LA'S CHATTRAM.— <i>b. p. r.</i>
		475 m. 7 f.	
		44	NELLORE.—9 m. <i>b. p. t. r.</i>
		484 m. 7 f.	

For remarks see
Main Route No.
3, stages Nos.
1 to 6.

AUTHORITIES.		No. of stage and total distance	MAIN ROUTE NO. V.	
Civil.	Military.			
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	45	KOMMA- 11 m. 1 f. PALAIYAM.	For remarks see Main Route No. 3, stages Nos. 10 to 14.
		496 m. 0 f. 46	WALLAVAPAD.—9 m. 7 f.	
		505 m. 7 f.		
		47	KAVALI.—13 m. 0 f. b. p. t. r.	
		518 m. 7 f.		
		48	TETTU.—9 m. 0 f. r.	
		527 m. 7 f.		
		49	SINGARAYA.—13 m. 0 f. KONDA b. p.	
		540 m. 7 f.		
		50	TUNGATUR.—7 m. 0 f. b. r.	
COLLECTOR OF GUNTUR, GUNTUR.		547 m. 7 f.		Vide Main Route No. 3, Stages, No. 15 to No. 17. Country open and level; soil sandy.
		51	ONGOLE.—11 m. 0 f. b. p. t. r.	
		558 m. 7 f.		

AUTHORITIES.

Civil.	Military.
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No. of stage and total distance.

MAIN ROUTE NO. V.

COLLECTOR OF GUNTUR, GUNTUR.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

52

569 m.
3 f.

VELAMPALLE.—

10 m. 4 f.

b.

Vide Main Route No. III,
Stages No. 15 to No. 17.
Country open and level;
soil sandy.

53

575 m.
7 f.MEDARAMITTA.—6 m. 4 f. Metalled road, fit
for wheeled transport.

Open country, cultivated.
Main Route No. 3 joins here at stage 18.
Cross the Gundlakamma river, unbridged, 120
yds., fordable, except in rains, when 2 boats,
capacity 40 men each, are available. Cross five
nalas, 4 unbridged, 1 bridged, all fordable. At
4 m. Thimmaapalam (3,610).

Camping-ground.—None set apart or available.
Water.—From tank and 12 wells, for 1,000 men
and 500 animals.

Fuel.—Scarce.*Fodder*.—200 acres of grazing, $\frac{1}{2}$ m. from village.

Supplies.—Grain for 125 men for 2 days; with
notice, for 1,000 men for 2 days. No grain for
animals. Meat very scarce, as also vegetables.

54

584 m.
7 f.MUPAVERAM.—9 m. 0 f. Road fit for wheeled
(1328.) transport. Country
open and cultivated.

Up to $7\frac{1}{2}$ m. cross 6 *nalas*, fordable. $7\frac{3}{4}$ m.
Jagaramudivanpalam; then 2 more *nalas*,
fordable.

Camping-ground.—None available.*Water*.—4 wells, for 50 men and 20 animals.*Fuel*.—Scarce.*Grazing*.—20 acres, $1\frac{1}{2}$ m. from village.

Supplies.—Grain for 10 men for 2 days. 4 times
this quantity available with notice.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF QUNTUR, QUNTUR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		55	MARUTUR.—11 m. 0f. Road fit for motors. At 1 m. and 5 m. it passes under a water channel, crosses 7 <i>nālas</i> , unbridged, but fordable. At 2 m. Chelalore. 6 m. Tattapoody (500). 9 m. Degaramoody (small hamlet). <i>Camping-ground</i> .—None available. <i>Water</i> .—For 200 men and 50 animals for a day or two, except in summer. <i>Fuel</i> .—Limited quantity 2 m. from village. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain <i>nil</i> . Sheep and goats 50 each.
		595 m. 7f.	
		56	CHILAKALURPET.—8 m. Road fit for motors. Country open and flat. Cross 3 <i>nālas</i> , bridged, several small <i>nālas</i> , unbridged, but fordable. At 6 m. the Ogeru stream, unbridged and not fordable for about 2 days after heavy rain. All are provided with causeways. At 4 m. Tattapudi (500). 6 m. Degaramudi and Rajapalam. <i>Camping-ground</i> .—Nil. <i>Water</i> .—From well and channel, sufficient for men and animals of an Infantry Brigade. <i>Fuel</i> .—10 days' usually stacked in village. <i>Fodder</i> .—Grazing limited. <i>Supplies</i> .—Grain for above force available. Oxen 100; sheep 500; goats 200. Vegetables in small quantities, when in season.
		603 m. 7f.	
		57	GANAPĀVARAM.—3 m. Road fit for motors. Country open and flat. At 2 m. pass under channel.
		608 m. 7f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground.</i>—None available. <i>Water.</i>—From 2 wells, sufficient for men and animals of 2 Infantry Companies. <i>Fuel.</i>—Limited supply. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Very scarce. Oxen 10; goats 20.</p>
		58	<p>YENAMADALA.—12m. 4 f. Road fit for motors. Country open and flat, a few hills between 5th and 9th miles. At 3 m. Timmapuram; cross Jamaivagu, 200 yds., road dam 4 m., cross channel, 200 yds., broad, dam. 5 m. Edlapad; cross channel, 100 yds., tunnel. <i>Camping-ground.</i>—On dry cultivated land about 1 m. from village. <i>Water.</i>—from 4 tanks and 1 well, for 200 men and 50 animals. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing plentiful 3 m. from village. <i>Supplies.</i>—Grain for 500 men and 50 animals for 5 days. Oxen 10; sheep 2,000; goats 500.</p>
		619m. 3f.	
		59	<p>GUNTUR.—9 m. 3 f. Road fit for wheeled b. p., t. r. (41,250) transport. Country open and flat. Madras and Southern Mahratta Railway Station. Headquarters of Sub-Collector and Joint Magistrate, Stationary Sub-Magistrate, Tahsildar, District Munsif. Assistant Superintendent of Police and an Executive Engineer of the Public Works Department. Route No. 50 crosses and Route No. 53 joins here. <i>Camping-ground.</i>—About 310 acres, opposite Collector's office.</p>
		628m. 6f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Water</i>.—3 wells and pipe supply, for 1,000 men and 500 animals. Tank within $\frac{1}{2}$ mile.</p> <p><i>Fuel</i>.—2,000 tons stacked.</p> <p><i>Fodder</i>.—Hay obtainable.</p> <p><i>Supplies</i>.—Grain for large numbers for 2 months. Oxen 20; sheep 300; goats 300. Vegetables 1 ton.</p>
		60	<p>MANGALAGIRI.—13 m. <i>Of</i>. Road fit for wheel- b. p., t. r. (8750) ed transport. Coun- try open and flat, under cultivation of all sorts, mainly ragi, chil- lies and tobacco. Passable for cavalry. Light gun and Infantry. Immediate vicinities of villages only enclosed. Country become more hilly round Mangalagiri. The camp is over- looked in the East by a high hill. Madras and Southern Mahratta Railway station. Head- quarters of a Deputy Tahsildar. At $4\frac{1}{2}$ m. Padakakain (2760); 9m., Kaza (2116). <i>Camping-ground</i>.—10 acres, in Govt. offices com- pound, 200 yards from railway station. <i>Water</i>.—1 tank and 3 wells, for 500 men and 100 animals; scanty in summer. <i>Fuel</i>.—5000 lbs. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 500 men and 100 animals for 15 days. Sheep 15; goats 25. Vegetables 5 maunds. Oxen 4, goats 60.</p>
		61	
		649 m. 1f.	<p>BEZWADA.—7 m. 3 f.—Road fit for motors. b. p., t. r. (52,867). Country open and flat. Cross the Kistna about $\frac{1}{2}$ m. broad. There is a railway bridge open for foot passengers. In dry weather all traffic can cross the river over the embankment</p>

AUTH

Civil.

COLLECTOR OF KISTNA, MASULIPATAM.

PRIITIES.	No. of stage and total distance.	MAIN ROUTE NO. V.	
Mili- tary.			
GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.		<p>for which a temporary road will be formed. Route 52 crosses here. The town is situated on the left bank of the Kistna. Junction of H. E. H. the Nizam's Guaranteed State Railway and the Madras and Southern Mahratta Railway. The Headquarters of the Head Assistant Collector and Magistrate, a stationary Sub-Magistrate, a Tahsildar, the Superintending Engineer and two Executive Engineers of the Public Works Department, the local Fund District Engineer, a District Munsif and some junior officers. At 4 m. Patamata (1870).</p> <p><i>Camping-ground.</i>—On maidan $1\frac{1}{2}$ miles from railway station, 200 yds. from club. Small detachments often encamp on the canal banks close to the bridge at 6 m. Canal 150 yds. from camp, and 4 taps in camp.</p> <p><i>Water.</i>—Unlimited; from the Kistna and several canals branching therefrom. In the hot weather, the Kistna and wells in the town are sources of water supply.</p> <p><i>Fuel.</i>—From Forest Reserve, plentiful.</p> <p><i>Fodder.</i>—1,000 cattle can be grazed within 2 miles.</p> <p><i>Supplies.</i>—Grain unlimited; Oxen 100; sheep 50 daily; goats 50 daily. Vegetable small quantities only. 125 carts.</p> <p>Ground for tactical exercises near camp but no good for field firing. No car available at Bezwada.</p>	
	62		
	663 m. 0 f.	<p>GANNAVARAM.—13 m. 7 f.—Road metalled b. p. (2250). as far as Kesara- palli, thence gravel- led, fit for motors throughout. Madras and</p>	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.			
GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.			
		63	<p>Southern Mahratta Railway station $1\frac{1}{2}$ m. from the stage. Cross within the town limits the Ellore and Ryves canals, bridged. Cross at 10 m. (1) Budameru, 30 yds., unbridged and unfordable for a few hours after heavy rains; (2) The Ellore canal has a pontoon bridge and a ferry boat. At 3m. Gundala (850), 5 m. Ramavarappadu 50), $5\frac{3}{4}$ m. Prasadampadu (400), $6\frac{3}{4}$ m. Enikepadu (600), $7\frac{3}{4}$ m. Nidamanur (1,300), 9 m. Gudavali (600), 11 m. Kesarapalli (1,750). Country open and passable by all arms except medium and heavy artillery.</p> <p><i>Camping-grounds.</i>—8 acres in Govt. office compound are available.</p> <p><i>Water</i>—from a well in centre of camp, 60 feet deep and 10 feet wide. Large tank, 200 yds. away for animals and washing.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing for 2 500 animals within 3 m.</p> <p><i>Supplies.</i>—Grain, from surrounding villages for 2,000 men and 1,000 animals for 1 week. Sheep 200; goats 200.</p>
		676m. 3f.	<p>PERIKIDU.—13 m. 3 f. Road fit for wheeled transport only. First (2800) $8\frac{1}{2}$ m. gravelled, thence metalled road. At 5 m. Pottipadu (1,200), 8 m. Aruparam (1150), 10 m. Viravalli (2,200).</p> <p><i>Camping-ground.</i>—102 acres S. of village, also a large space near the village.</p> <p><i>Water.</i>—From Ellore Canal, a tank and well. Latter is 6 feet deep and 3 feet wide and is only source of drinking water.</p> <p><i>Fuel.</i>—Scarce.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.		64	<p><i>Fodder</i>.—Grazing for 500 animals 2 m. distant. <i>Supplies</i>.—Grain for 1,000 men and 500 animals at 8 days' notice. Sheep 100; goats 50.</p>
		688m. 3f.	<p>ELLORE.—12 m. Unmetalled road, in bad repair, but fit for wheeled transport. Country flat and well cultivated. Madras and Southern Mahratta Railway station. Routes 54 and 58 join here. At 2 m. Vasantanada (2,700), 4 m. Rajupet (400), 6 m. Pedapadu (4,200), 10 m. Hothur (650), 10½ m. stream, 40 yds., unbridged, fordable, expect in floods. <i>Camping-ground</i>.—On Maidan, 100 yds. from railway station, unlimited space. <i>Water</i>.—Canal and four wells, unlimited, except March to May, when sufficient for 2,000 men or 1,000 animals. 2 drinking water taps on maidan. <i>Fuel</i>.—Washing place on canal. 6,000 lbs. wood. <i>Supplies</i>.—For 2,500 men and 500 cattle for one week. Oxen 15; sheep 50; goats 100. Vegetables, 30 maunds daily. 100 carts.</p>
		700m. 3f.	<p>BHIMDOLE.—12 m. Gravelled road, in fair repair, fit for motors. Road runs along Godaveri Canal to about 9th mile. Madras and Southern Mahratha Railway station. Cross the Tammileru river, bridged, at ½ m. 5 m. Dendulur (4350), 9 m. Gundugolam (3950), 10 m. Seethampet (1350), 11 m. Surappagudan (1050). <i>Camping-ground</i>.—4 acres, N.-W. of village. <i>Water</i>.—From Godaveri Canal, 1 tank and 1</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.	66	well, unlimited, except in May, when only 500 men and 200 cattle can be supplied. <i>Fuel and Fodder.</i> —Nil. <i>Supplies.</i> —For 100 men and 50 cattle, locally; but grain for ten times this force can be obtained at 15 days' notice. Oxen 440; sheep 60; goats 240. Vegetables 3 maunds daily.
		713 m. 1 f.	NALLACHERIA.—12 m. 6 f. Metalled road, fit for motors. Country, sandy. 8½ m. Dupachorla (2,900). <i>Camping-ground.</i> —High and good; about 8 acres, W. of village. <i>Water.</i> —For 2,000 men and cattle, from 3 tanks and 5 wells, except in summer, when only half these numbers can be supplied. If water is deficient here, camp at Jagannathapet 1 m. distant. <i>Fuel.</i> —20 cartloads. <i>Fodder.</i> —Grazing for 2,000 animals, 2—6 m. from village. <i>Supplies.</i> —Grain for 2,000 animals for 3 days. Oxen 100; sheep 200; goats 200. Vegetables for 500 men for 3 days.
COLLECTOR OF GODAVERI, COCANADA.	GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.	67	YERNAGUDEM.—8 m. 1 f. Sandy road, in good repair, fit for wheeled transport. Cross the Yiratkalva river, unbridged, 40 yds., at 4 m. River in flood for 5 or 6 days every year; it is then about 8 feet deep, and is crossed by rafter. <i>Camping-ground.</i> —2 acres, E. of village. <i>Water.</i> —4 tanks and 4 wells, for 2,000 men and animals.
		721 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GODAVERI, COCANADA. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.			<p><i>Fuel</i>.—25 cartloads.</p> <p><i>Fodder</i>.—Grazing for 200 animals within 2 m.</p> <p><i>Supplies</i>.—Grain for 100 men or 1,000 animals for 4 days; other supplies <i>nil</i>.</p>
		68	<p>PANGADI.—11 m. 2 f. Unmetalled road, fit for wheeled transport, not in good repair. Country undulating, with high gradients; after Devarahalli, open and cultivated. Pass Dhumantaverigudem (300), Devarampalli (2,600), Daddukur (1,600).</p> <p><i>Camping-ground</i>.—4 acres.</p> <p><i>Water</i>.—From a tank and a pond known as the Rallamadugu (both dry in summer) and from 4 wells, for 1,000 cattle and 500 men, except during summer, when only 100 men and 200 cattle can be supplied.</p> <p><i>Fuel and fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 animals at 2 days' notice, and for double the quantity at a week's notice from Niddadavale, 9 m. Rajamundry, 8 m. distant. Oxen <i>nil</i>; sheep 100; goats 100—at a week's notice.</p>
		732 m. 4 f.	
		69.	
		742 m. 5 f.	<p>RAJAHMUNDRY.—10 m 1 f. Metalled road, <i>b.p.t.r.</i> fit for motors. (42,425).</p> <p>Country open and cultivated. Madras and Southern Mahratta Railway station. Routes Nos. 56 and 59 join here. At 1 m. Rallamadugu river, fordable. 3 m. Dommeru (3620). 6 m., Kouvpuru (3891). 10 m. Godaveri river, 1½ m., bridged, also steamer and boat.</p> <p><i>Camping-ground</i>.—5665 yds. 2266 yds., E. of town.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GODAVERI, COCANADA. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—Supply unlimited; from the river and 1 tank.</p> <p><i>Fuel</i>.—Stacked, 5,000 bundles.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 100,000 men and 10,000 animals for 1 month. Oxen 25; sheep 50, goats 50. Vegetables 15 days' supply. 125 carts.</p>
		70	<p>RAJANAGARAM.—10 m. 1f. Road fit for motors. Country, wet cultivation.</p>
		752 m. 6f.	<p><i>Camping-ground</i>.—1,980 yds. × 792 yds. S. of village, and 880 yds. × 352 yds. additional space near.</p> <p><i>Water</i>.—Supply from Local Fund tank and 1 well, for 4,000 men and 2,000 animals.</p> <p><i>Fodder and Supplies</i>.—Are ordinarily available without previous notice for 400 men and 200 animals for 2 days, but, if more supplies are required, 15 days' notice must be given.</p>
		71	<p>JAGGAMMAPETA.—13 m. 4f. Road fit for motors. Country, wet cultivation. Route No. 60 joins here. 3½ m. Murari (2350). 5½ m. Gandapalli (1750). 8¾ m. Mallepalli (3650). 10¾ Tallur (2500). 11¾ m. Rangampeta (2300).</p>
		766 m. 2f.	<p><i>Camping-ground</i>.—About 4 acres, N-W. of town.</p> <p><i>Water</i>.—For 100 men and 50 animals, from a well near the camping ground; there are also (i) an irrigation tank, which dries up in summer (ii) a fresh water tank, about 3 furlongs away, sufficient for 2,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Nil.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GODAVERI, COCANADA. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.			<p><i>Fodder.</i>—For 1,000 animals, within 2 miles. <i>Supplies.</i>—Grain in small quantities. Oxen 600; sheep 2,000; goats 300.</p>
		72	<p>DHARMAVARAM.—12 m. 2f. Road fit for b.p.r. (3,500). motors. Country cultivated. At 5½ m. cross the Yelliar river, bridged, masonry. Madras and Southern Mahratta Railway Station. The river is, as a rule, fordable.</p> <p>1 m. Ramaveram (1,000). 5½ m. Somavaram (1,000). 6 m. Yarravaram (1,250). 11 m. Prathipadu (1,250). 12 m. Soddageda stream, 30 yds., masonry bridged, fordable, except in flood.</p> <p><i>Camping ground.</i>—About 5 acres, W. of village. <i>Water.</i>—From a tank, from July to December; scarce in other months; when the tank is full, can supply 300 men and animals. <i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing for 300 animals for 2 or 3 days 1 m. from village. <i>Supplies.</i>—Procurable for 300 men and 100 animals for 2 days on 15 days' notice. Oxen 400; sheep 25; goats. 200.</p>
		778 m. 4 f.	
		73	
		7991 m. 4 f.	<p>ARIMPUDI—14 m. 0 f. Road fit for motors. OR Country cultivated. ANNAVARAM Route No. 55 joins b.p. (1,200). here. Katapalli Railway Station 2 miles off. At 4 m. Chendurty (1,250). 8 m. Kattipudi (1,600). 11 m. Bendapudi (2,350). <i>Camping-ground.</i>—About 2 acres, E. of village;</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE. NO. V.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA,	GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.	74	<i>Water</i> .—Supply for about 1,000 men and animals, from Pampanadi river. Running water all the year round, except for 3 months in the dry weather, during which time "doruvus" will be sunk in the river bed, wherein water is available. Also (i) a local Fund tank containing good drinking water and (ii) 15 wells in the village, but this water is brackish.
		804 m. 0 f.	<i>Fuel</i> .—Nil, but forest near village. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain nil. Oxen 140; sheep 100; goats 650.
COLLECTOR OF VIZAGAPATNAM, WALTAIR.	GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.	75	<i>TUNL</i> .—11 m. 4 f. Road fit for motors. b. p. t. r. (9,268) Country cultivated, jungly and rocky.
		816 m, 1 f.	At $\frac{1}{2}$ m. stream, brick bridge. At $3\frac{1}{2}$ m. Tetagunta (3 619'). <i>Camping-ground</i> .—N. of Town. <i>Water</i> .—From a river, which is dry in hot weather, but a supply for 500 men and 100 animals can be had by sinking pot-ring wells and "doruvus" in its bed. <i>Fuel</i> .—50 cartloads. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 500 men and 100 animals for 7 days. Oxen 59; sheep 100; goats 100. Vegetables for 200 men.
			<i>NAKKAPILLI</i> .—12 m. 1 f. Gravelled road, fit for wheeled transport throughout. Country cultivated and hilly. Route No. 55 branches off here. Madras and Southern Mahratta Railway Station at 4 m. from Narsa-

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.			<p>patam. At $\frac{1}{4}$ m. Tandava river, 200', stone bridged. 1 m. Payakarewpata (2,975). 5 m. Godichevia (1,645). 6 m. Uddundipuram (1,134). <i>Camping-ground</i>.—12 acres, W. of village. <i>Water</i>.—For 2,000 men and 500 animals, from wells and tanks at all seasons. <i>Fuel</i>—Obtainable. <i>Fodder</i>.—Grazing <i>nil</i>. <i>Supplies</i>.—For 2,000 men and 500 animals for 3 days. Oxen 100; sheep 25; goats 25. Vegetables for 300 men.</p>
		76	<p>ELLAMANCHILL.—13 m. Road fit for b. p. r. (7,036). wheeled traffic. Country hilly to the N.-W., paddy ground to the S. Madras, and Southern Mahratta Railway station. At 3 m. Timinapuram (2,370). 6 m. Penogole (1,430). 6 m. Varaha river, stone bridge, fordable. 7 m. Pulaparti (1,885). 9 m. Kottali. 10 m. Negulam (3,144). <i>Camping-ground</i>.—15 acres, N.-W. of town. <i>Water</i>.—For 2,000 men and 500 animals, from 4 tanks and 3 wells. <i>Fuel</i>.—20 tons stacked. <i>Fodder</i>.—Grazing <i>nil</i>. <i>Supplies</i>.—Grain for 2,000 men and 500 animals, Oxen 120; sheep 30; goats 30. Vegetables for 200 men.</p>
		829 m. 1f.	
		77	<p>KASIMKOT.—12 m. Of. Metalled road, fit for p. r. (6,784). wheeled transport. Country as for last stage. Cross 2 <i>nalas</i>, 125 \times 60 yds., both bridged. At $1\frac{1}{2}$ m. Madras and Southern Mahratta</p>
		841 m. 1f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.		78	<p>Railway station. 4 m. Narasingavalli (440). 9½ m. Bayavaram. (3,340).</p> <p><i>Camping-ground</i>.—About 20 acres, N. of town.</p> <p><i>Fuel</i>.—Plentiful.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 500 men and 100 animals for 7 days. Oxen 30; sheep 50; goats 50; vegetables for 500 men.</p>
		855 m. 4f.	<p>SUBBAVERAM.— 14 m. 3 f. Road fit for p. b. (2,263). wheeled transport. Country open, with some hills. At 3 m. pass Ankapalli (20,600), a Municipality with ample supplies. At 4 m. Road to Vizagapatam. Route No. 63 turns off, and Route No. 67 joins here. 1½ m. Pushukeda (426). Sarada river, 200 yds., bridged. 5 m. Sankaram (480). 7 m. Narripulam (565).</p> <p><i>Camping-ground</i>.—About 30 acres, E. of village.</p> <p><i>Water</i>.—For 100 men and animals, from 2 wells and a tank, which run dry in a bad year.</p> <p><i>Fuel</i>.—Cut, obtainable.</p> <p><i>Fodder</i>.—Grazing; 50 acres pasture 3 m. from village.</p> <p><i>Supplies</i>.—Grain for 50 men and animals for 1 day. Oxen 10; sheep 10; goats 10.</p>
		79	<p>SONTYAM.—13 m. 0 f. Road fit for wheeled transport. Country open, a few small hills. Route No. 66 crosses in this stage.</p> <p><i>Camping-ground</i>.—2 acres at 2 m. W. of village.</p>
		368 m. 4f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—For 500 men, from 3 wells and a tank near the Choultry; in dry season, less water will be available.</p> <p><i>Fuel</i>.—Cut, small quantities stacked.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain very limited. Oxen 20; sheep 40; goats 40.</p>
		80	THAGARAPUVALSA. (1,313).—13 m. 4 f. Road
		882 m. 0 f.	<p>OR fit for wheeled transport; rough open country, a little cultivation. A road to Bimlipatam turns off here. Route No. 68 crosses here. At 5 m. <i>nala</i>, 20 yds., brick bridge; Gudilova (151). 7 m. Gambeteram (1828). 8 m. Velulavalsa (660). 10 m. Tallavalsa (1743). 11 m. Langivalsa (1885). 13 m. Tagarapuvalsa (1313). 13½ m. Chettavalsa river, 150 yds., brick bridge.</p> <p><i>Camping-ground</i>.—2 acres, W. of Chettavalsa.</p> <p><i>Water</i>.—From river and 1 well, for 1,000 men and animals, temporary pits being dug in river bed in dry season.</p> <p><i>Fuel</i>.—Scarce.</p> <p><i>Fodder</i>.—Grazing for 100 animals, 5 m. from village.</p> <p><i>Supplies</i>.—Grain <i>nil</i>. Oxen 10; sheep 30; goats 30.</p>
		81	KOPPERLA 14 m. 2 f. Road fit for wheeled
		396 m. 2 f.	<p>(1,339). transport. Country cultivated. 8 m. Savarevilli (1,775). 12 m. Bhogapuram (4879).</p> <p><i>Camping-ground</i>.—50 acres.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—From the river Gosthani ($\frac{1}{4}$ mile, fordable, except in flood), for 1,000 men and 300 animals.</p> <p><i>Fuel, Fodder and Supplies</i> of all sorts can be obtained when due notice given.</p>
		82	<p>JAGANNADHARA-GAPURAM. — 12 m. b. (1,964). Road fit for wheeled transport. Country cultivated. $\frac{1}{4}$ m. <i>nala</i>, 100 yds., fordable. 1 m. Rusapatirega (1400). 3 m. Kavimetta (330). 6 m. Kavdivalsa (704). $6\frac{1}{2}$ m. <i>nala</i>, 50 yds., fordable. 9 m. Kosta (592). <i>Camping-ground</i>.—7 acres, N. of village. <i>Water</i>.—From a tank and 2 wells, for 5,000 men and 200 animals. <i>Fuel</i>.—Scarce. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 1,000 men and 200 animals for 1 day at 1 week's notice. Oxen 5; sheep 30; goats 20.</p>
		908m. 2f.	
		83	<p>CHILAKAPALAM.—9 m. Road fit for wheeled transport. Country cultivated. Cross the Badamergudi river, unbridged. At 2 m. Tallavalsa (524). $5\frac{1}{2}$ m. stream, 200 yds., fordable. 6 m. Buduranga (1527). <i>Camping-ground</i>.—10 acres, S. of village. <i>Fuel</i>.—Scarce. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 1,000 men and 200 animals for 1 day at a week's notice. Oxen 5; sheep 30; goats 20.</p>
		917 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.		84	CHICACOLE.—6 m. 0 f. Road fit for motors in b. p. l. r. (17,850). this stage. Country cultivated. Bengal and Nagpur Railway station. Route No. 72 joins here. 1 m. Veeherla. 5 m. Ayatanagram. <i>Camping-ground</i> .—11 acres, E. of town. <i>Water</i> .—From river Nagavali (400 yds., bridged, masenrv) and 2 wells; in dry weather, small pits will have to be dug in river bed. <i>Fuel</i> .—100 tons. <i>Fodder</i> .—Grazing for 1,000 animals, 1 m. from camp. <i>Supplies</i> .—Grain for 10,000 and 3,000 animals at a week's notice. Oxen, sheep, goats 1,000 each.
		923 m. 2 f.	
		85	NARSANNAPET.—14 m. Road fit for motors. p. l. (3,100). Country cultivated. At 8 m. cross river, unfordable in rains, 4 boats available. Route No. 73 crosses here. 2½ m. Pedapadu (1,900), 7 m. Lingapuram (3,650). 10 m. Devadi (500). <i>Camping-ground</i> .—13 acres, N. of village. <i>Water</i> .—For 1 000 men and 100 animals, from 2 tanks and wells. <i>Fuel</i> .—10 tons. <i>Fodder</i> .—36 acres grazing for 1,000 animals, 1 m. from camp. <i>Supplies</i> .—Grain for 1,000 men and 300 animals for 3 days at 1 month's notice. Oxen 100; sheep 50; goats 500. Vegetables at weekly Monday market.
		937 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR.			
		86	KOTABOMMALL.—10 m. 0f. Road fit for motors. p. (2,450). Country open and cultivated. 1½ m.
		947 m. 2f.	Tammarapalli (550). 4 m. Chinacomidi. (500). 6 m. stream, 12 yds., bridged. 8 m. Jarjangi (500). 9 m. Garibulagedda river, 25 yds., bridged. Camping-ground.—7 acres, S. of village. Water.—From 2 tanks and a channel, for 1,000 men and 300 animals. Fuel.—Nil. Fodder.—Grazing for 300 animals, 1 m. from camp. Supplies.—Grain for 500 men and 200 animals at 1 month's notice. Oxen 100; sheep 500; goats 500; vegetables weekly at Thursday market.
GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.		87	NAUPADA.—10 m. 0f. Road fit for motors, but p.r. (2,300). 2 m. of stage requires repair. Country open and cultivated. Bengal-Nagpur Railway station. At 3 m. Santhabommali (3,450). 5 m. Vadditandan (1,100). 7 m. Hammanthunai Dupett (200). 8 m. Yamalapett (700). Camping-ground.—8 acres, S.-W. of village. Water.—from a tank and 2 wells, for 2,000 men and 500 cattle, except in summer, when only 1,000 men and 100 animals can be watered, from wells. Fuel.—Nil. Fodder.—Grazing for 600 animals, 2 m. distant. Supplies.—For 150 men for 3 days at 1 week's notice. Oxen 100.
		957 m. 2f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GANIAM, CHATRAPUR. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.		88	<p>PATATEKKALL.—6m. 6f.—Road fit for motors. p. (950). Country open and cultivated. At 1 m. Gedda stream, 20', bridged. At 2 m. Marripadu (800). At 4 m. Sitanaganam (450). 5. m. Pollada 400.</p> <p><i>Camping-ground.</i>—About 5 acres, $\frac{3}{4}$ m. N. of village.</p> <p><i>Water.</i>—For 300 men and animals, from 1 tank and 2 wells, but tank and 1 well are likely to fail in dry year.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing for 1,000 animals 3 m. away.</p> <p><i>Supplies.</i>—Grain for 500 men and 200 cattle for 3 days at 15 days' notice. Oxen 100; sheep 50; goats 30.</p>
		964 m. 0 f	
		89	<p>KASIBUGGA.—10 m.—Road fit for motors. p.t.r. (2,500). Country open and cultivated. At 3 m. Govindapuram (450). 4 m. Marlapadu (300). 7 m. Kavita (900). 8 m. Bandigedda stream, 20', bridged. 9 m. Chinnabadan (850).</p> <p><i>Camping-ground.</i>—About 8 acres, N. of village.</p> <p><i>Water.</i>—From wells and 1 tank, for 500 men and 500 animals.</p> <p><i>Fuel.</i>—Large quantities.</p> <p><i>Fodder.</i>—Grazing for 1,000 animals 2 m. away.</p> <p><i>Supplies.</i>—Grain for 800 men for 3 days at 10 days' notice. Sheep 30; goats 30. Vegetables for 800 men for 3 days.</p>
		974 m. 0 f	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR. GENERAL OFFICER COMMANDING, SOUTHERN MADRAS DISTRICT, WELLINGTON.		90	HARIPURAM.—9 m. 0 f. Road fit for motors. p. (1,000). Country open and cultivated. At 3½ m. stream, 20', masonry bridge. At 4½ m. stream, 20' iron girder bridge. 6 m. Makarajola (50). <i>Camping-ground</i> .—About 5 acres S. of village. <i>Water</i> .—For 1,000 men and animals from 2 wells and tanks. <i>Fuel</i> .—From Mandasa 3 m. away. At a fortnight's notice. <i>Fodder</i> .—Nil. <i>Supplies</i> .—As for fuel.
		983 m. 0 f.	
		91	KANCHILLI.—11 m. 4 f. Road fit for motors. r. (450). Country open and cultivated. Cross river Mahadra Tanarya, bridged, at 5½ m. At 2 m. Abugam (700). 3 m. Ranigam (250). 4½ m. Mamidapalli (1000). 5 m. Peerlagedda stream, 20', masonry bridge. Turakasatanam (550). 6 m. Palavalasa (1550). 7 m. Korlam (1,000). 8 m. Besi (1,450). 9 m. Booragam (1,700). <i>Camping-ground</i> .—13 acres, N. of village. <i>Water</i> .—From a tank and 2 wells, for 1,000 men and animals; the tank water is not very good. <i>Fuel and Fodder</i> .—Nil. <i>Supplies</i> .—From Sompeta 3 miles away, for a regiment at 14 days' notice.
		994 m. 4 f.	
		92	ICHAPUR.—12 m. Road gravelled, fit for p.t.r. (9250). Country open and cultivated. Pass Savaradaipetta (1,350) and Lodaputti.
		1006 m. 4 f.	

MAIN ROUTE NO. V.

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

COLLECTOR OF GANJAM, CHATRAPUR.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

93

1021 m.

4 f.

(2,450), 11½ m. Bakuda river, 100 yds., masonry bridge, unfordable.

Camping-ground.—About 6½ acres.

Water.—From 6 tanks and 2 wells, for 1,000 men and animals.

Fuel.—10 tons.

Fodder.—Grazing for 1,000 animals, ½ m. from town.

Supplies.—Grain for 1,000 men and 500 animals for 7 days, with previous notice. Sheep 100; goats 100; vegetables for 100 men for 2 days.

BERHAMPORE.—15 m. 0 f. Metalled road, fit b. p. t. r. for motors. Country mostly open and

cultivated, *nalas* bridged. Route No. 74 crosses in this stage, and Route No. 75 joins here. 2 m. Aminsahippet (224). 3 m. Parushathapur (678). 4 m. Girisola (1024). 7½ m. Bhalyagandi (490). 10½ m. Golantra (1,524). 11½ m. Randa (1,042). Ronisi (733). 14 m. Holidispore (929). 14½ m. Gasanivagam (2553).

Camping-ground.—12½ acres, E. of town.

Water.—Tanks and pipe supply, for 31,456 men and 12,000 animals.

Fuel.—50 cwt.

Fodder.—Grazing: 50 acres for 1,000 animals.

Supplies.—Grain for 1,000 men and animals for 1 month. Sheep 100.

94

1036 m.

0 f.

CHATRAPUR.—14 m. 4 f.—Road metalled p. t. r. (450). and gravelled, fit for

motors. 3 m. Dasimgi (450). 4 m. village (750). 6 m. village (550). 9 m.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR.			<p>village (900). 9½ m. Godagadapalli (300). 9½ m. Katiapalli (350). <i>Camping-ground</i>.—South of village. <i>Water</i>.—For 1,000 men and animals, from 2 wells and 3 tanks. <i>Fuel</i>.—Large quantities. <i>Fodder</i>.—Grazing for 100 animals within 2 m. <i>Supplies</i>.—Grain for 2,000 men for 1 month and 1,000 animals for 2 weeks. Oxen 500; sheep 50; goats 50.</p>
		95	<p>GANJAM.—5 m. 0 f. Road metalled and gravelled, fit for motors. <i>p. r.</i> (3,650). This place is malarial.</p>
		1041 m. 0 f.	<p>At ½ m. village (450). 2 m. village (800). 3 m. village (800). 4 m. stream, 100', bridged, boats available. Cross the Rushikula river, Railway bridge only, fordable. Route No. 76 joins at this stage. <i>Camping-ground</i>.—14½ acres, S. of town. <i>Water</i>.—1 well in camping ground, for 1,000 men and 400 animals. <i>Fuel</i>.—Large quantities. <i>Fodder</i>.—Grazing for 1,000 animals 1 m. distant. <i>Supplies</i>.—Grain for 1,000 men and animals for 2 or 3 days. Oxen 1,000; vegetables obtainable.</p>
		96	<p>RAMBHA.—11 m. Road metalled and gravelled, fit for motors. <i>p. r.</i> (3,100). Country open and cultivated.</p>
GENERAL OFFICER COMMANDING, BANGALORE.		1052 m. 0 f.	<p>At 3 m. village (2200). 4 m. village (450). 5 m. village (350). <i>Camping-ground</i>.—6 acres, S. of village.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V.
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR.	GENERAL OFFICER COMMAND- ING, BANGALORE.		<p><i>Water.</i>—From 2 tanks and 2 wells, for 2,000 men; and for 100 cattle for 4 days, from well in camping-ground.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing for 1,000 animals 1 m. distant.</p> <p><i>Supplies.</i>—Grain for 1,000 men and cattle for 1 month. Oxen 1,000; sheep 1,000; goats 100. Vegetables available.</p> <p>For continuation, see Volume XI, Indian Route Book.</p>

MAIN ROUTE No. V. (1).

FROM ETAIYAPURAM TO SIVALPATTI.

Road metalled and bridged and practicable at all seasons as far as Koilpati, thence a fair-weather track only.

Direction.—West-North-West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (1).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALANCOTTAH.	G. O. C. MADRAS DISTRICT WELLINGTON.	..	ETAIYAPURAM.— <i>p.t.</i>
		1	KOILPATI—9 m. 6 f. <i>p.b. l.r.</i>
		9 m. 6 f.	
		2	SIVALPATTI.—74 m. 0 f.
		23 m. 6 f.	

MAIN ROUTE No. V (2).

FROM ARUPPU-KOTA TO VIRUDUPATI RAILWAY STATION.

Direction.—West.

COLLECTOR OF MADURAI, MADURAI.	G. O. C. MADRAS DISTRICT WELLINGTON.	..	ARUPPU-KOTA.— <i>p.t.</i>
		1	VIRUDUPATI RAILWAY STATION. 11 m. 0 f. <i>Vide</i> Route No. 10, stage, No. 7. <i>r.</i>
		11 m. 0 f.	

MAIN ROUTE No. V (3).

FROM TUVARANKURCHI TO KULITALAI.

A good metalled road, practicable at all seasons.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (3).
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.		..	THUVARANKURICHI.— <i>Vide</i> Route No. V; <i>b.p.</i> stage No. 12.
		1 6 m. 4 f.	PATTANATTAM.—6 m. 4 f. A good-sized village; country flat, soil gravelly; water from a tank and wells.
		2 16 m. 4 f.	MANAPARAI.—10 m. 0 f. <i>Vide</i> Route No. 9; <i>b.p.t.r.</i> stage 25.
		3 31 m. 4 f.	DESIMANGALAM.—15 m. 0 f. Camping-ground available; but water scarce in hot weather. Cross the Mamundi river, unbridged.
		4 42 m. 0 f.	KULITALAI RAILWAY STATION. 10 m. 4 f. Camping-ground at Vaiganalur, 2 m. distant; on <i>p.r.</i> payment of rent.

MAIN ROUTE No. V (4).

FROM KOVILPATTI TO MANAPARAI.

Road metalled.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (4).
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.	G. O. C. MADRAS DISTRICT WELLINGTON.	..	KOVILPATTI.— <i>b.p.</i>
		1	MANAPARAI.—8 m. 0 f. <i>b.p.t.r.</i>
		8 m. 0 f.	

MAIN ROUTE No. V (5).

FROM THOLUDUR TO KORAYUR.

This road runs along the left bank of the Vellar; it is metalled and gravelled, but heavy, though practicable at all seasons; the river is fordable below the anicut.

Direction.—East.

COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	THOLUDUR.— <i>b.</i>
		1	PELANDURAI 21 m. 0 f. ANICUT.
		21 m. 0 f.	
		2	KORAYUR.—1 m. 0 f.
		22 m. 0 f.	

MAIN ROUTE No. V (6).

FROM THE MAYAR RIVER TO KALLAKURCHI.

Cross one stream, unbridged; road nearly all gravelled and practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (6).
Civil	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	MAYAR RIVER.—
		1	KALLAKURCHI.—17 m. 4f.
		17 m. 4f	b.p.

MAIN ROUTE No. V (7).

FROM ASANUR TO ELAVANASUR.

Road partly gravelled, practicable at all seasons.

Direction.—North.

COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	ASANUR.— p.
		1	ELAVANASUR.—7 m. 0f.
		7 m. 0 f.	p.

MAIN ROUTE No. V (8).

FROM VILLUPURAM TO MAMBALAPPATTU.

Road gravelled, not practicable in the rains.

Direct.on.—West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (8).
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON	..	VILLUPURAM.— <i>b.p.t.r.</i>
		1 9 m. 6 f.	MAMBALAPPATTU.—9 m. 6 f. <i>p.</i>

MAIN ROUTE No. V (9).

FROM CHENDUR TO MAILAM.

Road gravelled, practicable at all seasons.

Direction.—East.

COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C., MADRAS DISTRICT WELLINGTON.	..	CHENDUR.
		1 2 m. 4 f.	MAILAM.—2 m. 4 f. <i>p.r.</i>

MAIN ROUTE No. V (10).

FROM TINDIVANAM TO VELLIMEDU.

Road metalled, practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (10).
Civil.	Military.		
COLLECTOR OF S. ARCOT, CUDDALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TINDIVANAM. <i>b., p.t., r.</i>
		1	VELLIMEDU.—8 m. 7 f. No supplies avail- <i>p.</i> able.
		8m. 7f.	

MAIN ROUTE No. V (11).

FROM CHOTLOPAKAM TO CHEYUR.

Metalled and bridged, practicable at all seasons.

Direction.—South-East.

COLLECTOR OF CHINGLIPUT, SAIDAPET.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	CHOTLOPAKAM.
		1	CHEYUR.—14 m. 0 f. <i>p.</i>
		14 m 0 f.	

MAIN ROUTE No. V (12).

FROM KARUNGULI to TIRUKALIKUNDRAM.

Cross the Palar and Bukutorai rivers, unbridged. Road metalled and partially bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (12).
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SAIDAPET.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KARUNGULI.— <i>p.</i>
		1 13 m. 0 f.	TIRUKALIKUNDRAM.—13 m. 0 f. <i>p.</i>

MAIN ROUTE No. V (13).

FROM KARUNGULI to NELVAYE.

Metalled and practicable at all seasons.

Direction.—North-West.

COLLECTOR OF CHINGLEPUT, SAIDAPET.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KARUNGULI. <i>p. b.ⁱ</i>
		1 7 m. 0 f.	NELVAYE.—7 m. 0 f. <i>p.</i>

MAIN ROUTE No. V (14).

FROM 326TH MILE TO TETRI.

Cross the Nelvôy Maddagu river, unbridged, but easy to cross,
road metalled and partially bridged, practicable at all seasons.

Direction.—West by South.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (14).
Civil.	Milit- tary.		
COLLECTOR OF CHINGLEPUT, SAIDAPET.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	326TH MILE.
		1 20 m. 0 f.	TETRI.—20 m. 0 f.

MAIN ROUTE No. V (15).

FROM CHINGLEPUT TO KOVALONG.

Metalled and bridged, practicable at all seasons.

Direction.—North-East.

COLLECTOR OF CHINGLEPUT, SAIDAPET.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	CHINGLEPUT. <i>b. p. t., r.</i>
		1 20 m. 0 f.	KOVALONG.—20 m. 0 f. <i>b. p.</i>

MAIN ROUTE No. V (16).

FROM VANDALUR TO TIRUVALUR RAILWAY STATION.

Cross the Maddagu and Malapadu rivers, unbridged. Road metalled and partially bridged, practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (16).
Civil.	Military.		
COLLECTOR OF CHINGELPUT, SADAPET.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	VANDALUR.
		1	<i>p.r.</i> PADAPAY.—4 m. 0 f. Distance approximate.
		4 m. 0 f. 2	SRIPERUMBUDUR.—10 m. 0 f. <i>Vide</i> Main Route No. IV, stage No. 2.
		14 m. 0 f. 3	
		26 m. 0 f.	TIRUVALUR RAILWAY STATION.—12 m. 0 f. <i>r.</i> Cross the Kuam river, unbridged.

MAIN ROUTE No. V (17).

FROM ST. THOMAS' MOUNT TO AVADI RAILWAY STATION.

A made-road, practicable at all times.

Direction.—North-West.

COLLECTOR OF CHINGELPUT, SADAPET.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	ST. THOMAS' MOUNT.
		1	<i>r.</i> POONAMALLEE.—6 m. 0 f.
		6 m. 0 f. 2	AVADI RAILWAY STATION.—5 m. 2 f. <i>r.</i>
		11 m. 2 f.	

MAIN ROUTE No. V (18).

FROM GUNTUR TO AMRAOTI.

Cross the Lam Vagu, Endryoi Vagu, Narukulla Vagu, and several small *nalas*, unbridged. Road metalled, but unbridged and practicable at all seasons; the *vagus* are impassable for a few days during freshets.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (18).
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS DISTRICT WELLINGTON.	..	GUNTUR. <i>b. p. t. r.</i>
		1	AMRAOTI.—21 m. 0 f. <i>p.</i>
		21 m. 0 f.	

MAIN ROUTE No. V (19).

FROM PERIKIDU TO NUZVID.

Cross 10 small streams, unbridged; road metalled; all large streams bridged.

Direction.—North-West

COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C. MADRAS DISTRICT WELLINGTON.	..	PERIKIDU.—Near Remachandra Apparao-peta.
		1	NUZVID.—14 m. 4 f. There is a fair-weather track from Nuzvid to Tiruvur, 30 miles
		14 m. 4 f.	6 f.; crosses 3 rivers and several small streams, unbridged; direction north-west. Camp of 8 acres near station yard. One drinking water well 8 ft. wide and 15 ft. deep. Large tank 150 yds. from camp for animals and washing.

MAIN ROUTE No. V (20).
FROM KOLAIR LAKE TO ELLORE.

A good made-road, practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (20).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM. G. O. C., MADRAS DISTRICTS, WELLINGTON.		..	KOLAIR LAKES.
		1	ELLORE. <i>b.p.t.r.</i>

MAIN ROUTE No. V (21).
FROM ANANTAPALLI TO RAGAVAPUR.

A mere fair-weather track, unmetalled and unbridged.

Direction.—West.

COLLECTOR OF KISTNA, MASULIPATAM. G. O. C., MADRAS DISTRICT, WELLINGTON.		..	ANANTAPALLI.
		1	LAKWARAM.—12 m. 0 f. Ground and water good; road partly over sandy, partly over red soil; supplies available. Cross a branch of the Yira Kavala, unbridged.
	12 m. 0 f.	2	BORRAMTOLLAM—7 m. 4 f. Supplies available; road good; soil red. Cross a branch of the Yira Kavala, unbridged.
	19 m. 4 f.	3	NARSAPUR.—9 m. 0 f. Ground high and good; water good; road good; soil red; no supplies.
	28 m. 4 f.	4	RAGAVAPUR.—13 m. 0 f. A large village; road partly over cotton soil, principally over red and sandy soil; no supplies.
	41 m. 4 f.		

MAIN ROUTE No. V (22).

FROM NIDADAVOL TO PANGADI.

Partially bridged, practicable for carts at all seasons.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (22).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	NIDADAVOL.—(On the Ellore Canal) 4 miles <i>p.t.r.</i> from the anicut.
		1	PANGADI—8 m. 0 f.
		8 m. 0 f.	

MAIN ROUTE No. V (23).

FROM KOVUR TO POLAVARAM.

A road running along the right bank of the river; bridged and partially gravelled; practicable at all seasons.

Direction.—North by West.

COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C. MADRAS DISTRICT WELLINGTON.	..	KOVUR.—On the river opposite Rajahmundry. <i>p.r.</i>
		1	POLAVARAM.—17 m. 4 f. <i>p.</i>
		17m. 4f.	

MAIN ROUTE No. V (24).

FROM RAJAHMUNDY TO PURUSHOTTAPATNAM.

A river embankment fit for foot traffic.

Direction.—North by West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (24).
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	RAJAHMUNDY. <i>b. p. i. r.</i>
		1 18 m. 0 f.	PURUSHOTTAPATNAM.—18 m. 0 f. <i>p.</i>

MAIN ROUTE No. V (25).

FROM RAJAHMUNDY TO KOTIPALLI.

A made-road, practicable at all seasons ; a branch from this leads to Rampa, 34 miles from Rajahmundry.

Direct on.—North by East.

COLLECTOR OF GODAVARI, COCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.		RAJAHMUNDY. <i>b. p. t. r.</i>
		1 23 m. 0 f.	KOTIPALLI—23 m. 0 f. <i>p. b.</i>

MAIN ROUTE No. V (26).

FROM RAJAHMUNDRY to SAMALKOT.

Bridged and metalled, practicable at all seasons; this road passes through Dowlaishwaram, and thence skirts the canal.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (26).
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	RAJAHMUNDRY. <i>b. p. t. r.</i>
		1	BALLABADRAPUR. 16 m. 0 f. Approximate.
		16 m. 0 f.	
		2	SAMALKOT.—18 m. 0 f. <i>b. p. t. r.</i>
		34 m. 0 f.	

MAIN ROUTE No. V (27).

FROM BALLABADRAPUR to KOREKONDA.

Bridged and gravelled, practicable at all seasons.

Direction.—North-West.

COLLECTOR OF GODAVARI, COCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	BALLABADRAPUR.
		1	RAJANAGARAM.—12 m. 0 f. <i>b. p.</i>
		12 m. 0 f.	
		2	KOREKONDA.—8 m. 4 f.
		20 m. 4 f.	

MAIN ROUTE No. V (28).

FROM JAGGAMMAPETA TO KOTIPALLI.

Bridged and metalled, practicable for carts at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (28).
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	JAGGAMMAPETA.— <i>b. p.</i>
		1	KOTIPALLI.—13 m. 4 f. <i>b. p.</i>
		13 m. 4 f.	

MAIN ROUTE No. V (29).

FROM PENTAKOTA TO TUNI.

Road gravelled and bridged in the Godavari District.

Direction.—North-West.

COLLECTOR, GODAVARI, COCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PENTAKOTA. —(On the Coast.) <i>p. b.</i>	Cross unbridged salt water creek here.
		1	TUNI.—7 m. 0 f. <i>b., p., t. r.</i>	
		7.0 f.		

MAIN ROUTE No. V (30).

FROM TIMMAPUR TO POLARAM.

Gravelled and bridged and in fair condition.

Direction.—East by South.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (30).
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	TIMMAPUR.—(2 miles from Nakkapalli.)
		1	POLARAM.—5 m. 0 f. (On the Coast.)
		5 m. 0 f.	

MAIN ROUTE No. V (31).

FROM PUDIMADAKA TO MADGOLE.

Road gravelled and bridged throughout ; practicable at all seasons.

Direction.—North.

COLLECTOR OF VIZAGAPATAM, WALTAE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PUDIMADAKA.—
		1	<i>p.</i> ANAKAPALLE.—14 m. 0 f.
		14 m. 0 f.	<i>b. p. t. r.</i>
		2	CHODAVARAM.—11 m. 0 f. Supplies good.
		25 m. 0 f.	<i>p. b. t.</i> Water brackish and scanty. Ample water from well $\frac{3}{4}$ m. W. of town.
		3	MADGOLE.—12 m. 4f. Ample camping space
		37 m 4 f.	water fair.

MAIN ROUTE No. V (32).

FROM SUBBAVARAM TO VENKAN APALEM.

Metalled throughout, practicable at all seasons.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (32).
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	SUBBAVARAM.— <i>p.</i>
		1	VENKANAPALEM.—11 <i>m. 0 f.</i> On last Branch.
		11 <i>m. 0 f.</i>	

MAIN ROUTE No. V (33).

FROM BIMLIPATAM TO THAGARAPUVALSA.

Bridged and metalled, practicable at all seasons.

Direction.—North West.

COLLECTOR OF VIZAGAPATAM, WALTAIR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	BIMLIPATAM.—On the Coast. <i>p. t.</i>
		1	THAGARAPUVALSA.—3 <i>m. 2 f.</i> <i>b. p.</i>
		3 <i>m. 2 f.</i>	

MAIN ROUTE No. V (34).

FROM KONADA TO NEAR KOPPERLA.

Gravelled and partially bridged, practicable at all seasons.

Direction.—North-West.

AUTHORITIES		No. of stage and total distance.	MAIN ROUTE NO. V (34).
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIL.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KONADA.—On the Coast. <i>p.</i>
		1 4m. 3f.	KOPPERLA.—4 m. 3f.

MAIN ROUTE No. V (35).

FROM CHICACOLE TO CALINGAPATAM.

Metalled and bridged, practicable for all arms at all seasons.

Direction.—East by North.

COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	CHICACOLE. <i>b. p. t. r.</i>
		1 12m. 0 f.	GARA.—12 m. 0 f. <i>p.</i>
		2 17m. 0 f.	CALINGAPATAM—5 m. 0 f. (On the Coast.) <i>p. t.</i>

MAIN ROUTE No. V (36).

FROM CALINGAPATAM TO CHINTADA.

Metalled and bridged, practicable for all arms at all seasons.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (36).
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C. MADRAS DISTRICT WELLINGTON.	..	CALINGAPATAM. <i>p. t.</i>
		1	GARA.—5 m. 4 f.
		5m. 4f. 2	BAIRI (Near CHICACOLE).—5 m.
		10m. 4f. 3	CHINTADA.—5 m. 1 f.
		15m. 5f.	

MAIN ROUTE No. V (37).

FROM BOMALI (NEAR JIRJONGHI) TO PALKONDA.

Road metalled and practicable for all arms.

Direction.—West.

COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	BOMALI (near JIRJONGHI).
		1	JALMUR.—7 m. 0f.
		7 m. 0f. 2	SARIBIJILL.—7 m. 0f. Cross the Vamsadhara river, unbridged.
		14 m. 0f. 3	PALKONDA.—10 m. 0f.
		24 m. 0f.	<i>p. t.</i>

MAIN ROUTE No. V (38).

FROM NAUPADA TO HEREMANDALAM.

Cross the Vasadhara river, unbridged, 6 miles from Katlapad.
Road practicable for all arms.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (38).
Civil.	Mili- tary.		
COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	NAUPADA.—
		1	<i>p. r.</i> JEMBORE.—9 m. 0 f. Approximately.
		9 m. 0 f. 2	KATLAPAD.—11 m. 0 f.
		20 m. 0 f. 3	HEREMANDALAM.—6 m. 0 f. Cross the Va-
		26 m. 0 f.	<i>p.</i> sadhara river, un- bridged.

MAIN ROUTE No. V (39).

FROM NAUPADA TO PARLAKEMIDI.

Road metalled and bridged, practicable for all arms at all seasons.
The two places are now connected by a light feeder railway.

Direction.—North-West.

COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT WELLINGTON.	..	NAUPADA.—
		1	<i>p. r.</i> PARLAKEMIDI.—24 m. 0 f.
		24 m. 0 f.	<i>p., t. r.</i>

MAIN ROUTE No. V (40).

FROM PUNDI TO MALIAPUTTU.

Road metalled and bridged ; practicable for all arms.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (40).
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PUNDI. <i>p.</i>
		1	BENDI (near PATA TEKKALI).
		3m. 4f.	
		2	MALIAPUTTU.—17 m. 0 f.
		20m. 4f.	

MAIN ROUTE No. V (41).

FROM KOTTAPALLI TO PARLA KEMIDI.

Road metalled, practicable for all arms.

Direction.—South-West.

COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KOTTAPALLI (near KASIBUGGA).
		1	PARLAKEMIDI.—36 m. 0f.
		36 m. 0f.	<i>p. t. r.</i>

MAIN ROUTE NO. V (42).

FROM PATTIKONDA TO BARWA.

Bridged and metalled, practicable at all seasons.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (42).
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PATTIKONDA.—(6 miles from Haripur.)
		1	BARWA.—3 m. 0f. (On the Coast.)
		3 m. 0f.	

MAIN ROUTE NO. V (43).

FROM BARWA TO KANCHILLI.

A metalled road.

Direction.—North-West.

COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	BARWA.—
		1	KANCHILLI.—6 m. 0f. A small village ; water from tanks and wells ; supplies from Som-
		6 m. 0f.	peta, where there is a railway station.

MAIN ROUTE NO. V (44).
FROM GOPALPUR TO DIGUPUDI.

Metalled and bridged, practicable for all arms.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (44).
Civil.	Military.		
COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	GOPALPUR.— <i>p. t.</i> ,
		1	BERHAMPORE.—9 m. 0f. A seaport, town. <i>b. p. t. r.</i>
		9 m. 0f.	
		2	DIGUPUDI.—18 m. 2f. <i>Vide</i> Route No. 74, <i>p.</i> Stage No. 3.
		27 m. 2f.	

MAIN ROUTE NO. V (45).

FROM GOPALPUR TO PURUSHOTTAPUR.

Metalled and bridged, practicable for all arms.

Direction.—South.

COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.		
		..	GOPALPUR.— <i>p. t.</i>
		1	JUGGANATHPUR.—3 m. 0f.
		3 m. 0f.	
		2	PURUSHOTTAPUR.—15 m. 0f. <i>Vide</i> Route <i>p.</i> No. 94, Stage No. 2.
		18 m. 0f.	Cross the river Rushikulya, unbridged.

MAIN ROUTE NO. V (46).

FROM HUMMA TO SASANAM.

Road metalled and bridged.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. V (46).
Civil.	Milit- ary.		
COLLECTOR OF GANJAM, CHATRAPUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	HUMMA.— p.
		1	SASANAM.—12 m. 0f. Railway station. r.
		12 m. 0f.	

MAIN ROUTE NO. VI.

FROM WELLINGTON TO LUCKNOW.

(PORTION FROM WELLINGTON TO KURNOOL.)

Length.—390 m. 4½ f.

40 stages.

Authority and date.—G. O. C., 9th Division, Jan. 1919.

Epitome.—General direction of the road is N.-N.-E. At Sigur the descent of the Nilgiris is ended; a hill 7 m. 2 f. long, average gradient 1 in 10; about half of it is metalled: this road passes over an open country, with gentle undulations, and is very good throughout. From Sigur to Gundlupet, the road is rather rough, with steep ascents and descents, but is bridged and practicable for wheeled traffic at all seasons. Country covered with dense jungle. From Gundlupet to Seringapatam, it is good, metalled and bridged throughout, traversing flat and open country. This is the only good road from the Nilgiris to Mysore, but fever of a very dangerous type constantly prevails between the foot of the hills and Gundlupet, more especially at the opening and close of the monsoons. From Seringapatam to Bangalore, the road is metalled or gravelled and, with the exception of the Netravati river, bridged throughout. It is practicable for wheeled traffic in the dry season, but troops should not march along it during the monsoons, when it is practically impassable. The road from Bangalore to Secunderabad is the main line of communication between these two stations. In the Bangalore and Kolar districts, it is metalled and well-shaded by trees, but beyond that it is indifferent, bad in the Anantapur District, and numerous unbridged rivers and *nalas* have to be crossed, which are at times impassable for a day or two after heavy rain.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF NILGIRIS OOTACAMUND. G. O. C. MADRAS DISTRICT WELLINGTON.		..	WELLINGTON.— Convalescent depot for <i>p. i. r.</i> (6,018). British troops, barracks for 1 British Regiment. South Indian Railway Station. <i>Camping-ground.</i> —Unlimited. <i>Supplies and water.</i> —Unlimited.

MAIN ROUTE NO. VI.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF NILGIRIS, OOTACAMUND.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	1	OOTACAMUND.—10m. 1f. Metalled road, fit for motors. At 3½ m. Cordite Factory. Aruvankadu. Railway Station, Nilgiri Railway. Pass Brewery. A large civil station, summer headquarters of Madras Government. Country open and undulating and cultivated. Route No. 25 joins here. <i>Camping-ground</i> —For any number of men on the Downs.
		10m. 1f.	(ST. STEPHEN'S CHURCH). <i>Water</i> .—Unlimited; from pipes, in Ootacamund, and from springs, on the Downs. <i>Fuel</i> .—1,000 lbs. or 100 cubic feet stacked. <i>Fodder</i> .—Unlimited grazing on the Downs within 3 m. <i>Supplies</i> .—Unlimited; from plains at short notice, of all sorts. Vegetables plentiful.
		2	KALHATTI.—6 m. 1f. Metalled road, fit for motors. Country cultivated, gradient of road very steep in places. <i>Camping-ground</i> .—Near Talaikundah, S. of village, about 100 acres. <i>Water</i> .—Supply unlimited; from Kalhatti river; which does not dry up.
		16m. 2f.	<i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 500 animals within 2 m. <i>Supplies</i> .—Food obtainable from Mysore for any number of men at short notice.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF NILGIRIS, OOTACAMUND.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	3	<p>SIGUR.—6 m. 1 f. Metalled road, fit for motors, gradient very steep. Country jungly. Descend the Sigur Hill, at 2½ m.; cross Kalhatti river, 20', bridged, fordable. Bungalow at left end of road.</p> <p><i>Camping-ground.</i>—2 acres available opposite Chattram; bushes can be cleared, when 10 acres more would be available.</p> <p><i>Water-supply.</i>—Unlimited, from the Sigur river.</p> <p><i>Fuel.</i>—Plenty obtainable.</p> <p><i>Fodder.</i>—Grazing within 2 m. for any number of animals.</p> <p><i>Supplies.</i>—Ample, available from Ootacamund or Mysore at short notice.</p>
		4	<p>MUSINAGUDL.—6m. 0f. Gravelled road, fit for motors. Country wooded. 3 m.</p> <p>Mauanhalla (20), also river of same name, wooden bridge, and Sigur river, iron girder bridge, 25'.</p> <p><i>Camping-ground.</i>—For Infantry Brigade W. of village.</p> <p><i>Water.</i>—From a tank and 2 wells, for 100 men and animals; unlimited in cold weather.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing: 200 acres within 2 m. Supplies of food for 100 men and animals in local bazar for 1 day.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Mili- tary.		
COLLECTOR OF NILGIRIS, OOTACAMUND.	GENERAL OFFICER COMMANDING MADRAS DISTRICT WELLINGTON.	5	<p>TIPAKADU.—4 m. 2 f. Metalled road, fit for b. motors. Country grass lands. Cross the Mayar river, bridged. Route No. 22 branches off here. At 2½ m. Jodipalam stream, wooden bridge, 12.'</p> <p><i>Camping-ground.</i>—Not advisable to camp here; owing to malaria.</p> <p><i>Water-supply.</i>—Unlimited. A perennial stream runs close by the camping-ground. Water from the river said to be dangerous.</p> <p><i>Fuel.</i>—Available.</p> <p><i>Fodder.</i>—Unlimited supply.</p> <p><i>Supplies.</i>—Nil.</p>
		32 m. 5f.	
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING BANGALORE.	6	<p>BANDIPUR.—7 m. 4 f. Road rough, with (210). steep ascents and descents. Heavy jungle all the way. 3 m. Kaganhole stream, 100', masonry bridge, fordable in dry weather.</p> <p><i>Camping-ground.</i>—6 acres, E. of village.</p> <p><i>Water.</i>—For 1,000 men and animals during rainy season from a tank or a well—both run dry in hot weather; supply for 50 men and animals can be got by sinking a well 20 feet deep in the tank bed.</p> <p><i>Fuel.</i>—Unlimited.</p> <p><i>Fodder.</i>—Grazing all round village for 1,000 animals.</p> <p><i>Supplies.</i>—Nil.</p>
		40 m 1f.	
		7	<p>GUNDLUPET.—11 m. 6 f. Road, as for last b p. t. (4,100). stage. Country un- dulating, partly jungle and partly cultivated.</p>
		51m. 7f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.	
Civil.	Military.			
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>6½ m. Hugla (2,000). 9½ m. stream, bridged and can be crossed on bamboo rafts. <i>Camping-ground</i>.—About 8 acres, E. of town. <i>Water</i>.—For 1,000 men and 50 animals, from a tank and a well; former runs dry in hot weather, when the well and the Gundlu river (1 m.) supply requirements. <i>Fuel</i>.—Unlimited. <i>Fodder</i>.—Grazing close by for 50 animals. <i>Supplies</i>.—Grain for 1,000 men or 400 animals for 1 month. Oxen 10; sheep 20; goats 30.</p>	
		8	<p>BEGUR.—10 m. 1 f. Road fit for motors. <i>b. p.</i> (1,100). Country cultivated. 3½ m. Madarhalli (550). 6½ m. Raghuvapur (1,200). 8 m. stream, 30', masonry bridge, fordable, except in rains. <i>Camping-ground</i>.—About 3 acres, E. of village. <i>Water</i>.—From 4 wells or a tank, for 1,000 men and animals; all these run dry in hot weather, when water will have to be got from 6 wells ½ m. away. <i>Fuel and Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 200 men for 1 day. More with notice.</p>	
		62 m. 0f.		
		9	<p>SINDHALLI.—7 m. 6 f. Road fit for motors. <i>b.</i> (1,300) Country open and cultivated. ¾ m. stream; 40'; 3 m. stream, 40'; both bridged masonry and ordinarily fordable. 6 m. Shindurallipur (400'). <i>Camping-ground</i>.—7 acres, W. of village.</p>	
		69 m. 6f.		

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Water</i>.—1 tank and well, for 200 men and animals, tank fails in hot weather.</p> <p><i>Fuel, Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Unlimited supplies from Nanjangud. Sheep 5; goats 5.</p>
		10	<p>KADAKOLA.—9 m. 5f. Road fit for motors. b. p. (1,500). Country open and cultivated. At 4 m. pass Nanjangud (7,000), where Route No. 15 joins. 4½ m. <i>nala</i>, 30', masonry bridge. 6 m. Kapila river, 300 yds., masonry bridge, fordable in dry season.</p> <p><i>Camping-ground</i>.—About 4 acres, N. of village.</p> <p><i>Water</i>.—Unlimited; from a stream, which runs dry in hot season, when wells can be sunk to meet requirements.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing for 200 animals, 2 m. away.</p> <p><i>Supplies</i>.—Grain for 100 men and animals for 1 day. Sheep 5; goats 5.</p>
		79m. 3f.	
		11	<p>MYSORE.—9 m. Road fit for motors. b., p., t. r. (71,300'). Country open and cultivated. Madras and Southern Mahratta Railway Station. Routes Nos. 19 and 24 cross here.</p> <p><i>Camping ground</i>.—9 acres, N. of town.</p> <p><i>Water</i>.—Unlimited pipe supply.</p> <p><i>Fuel</i>.—1,000 maunds.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 5,000 men and animals for 1 day.</p> <p>Oxen 10; sheep 100; goats 50. Vegetables 20 maunds.</p>
		88m. 3f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	12	<p>SERINGAPATAM.— Road fit for 9 m. 4 f. Country b. p. t. r. (7,500). open and cultivated. Road to French Rocks, distance 6 m., branches off W. Fever very prevalent here. Route No. 15 joins and Route No. 26 crosses here. At $4\frac{1}{8}$ m. Sidlingpur (200). $4\frac{3}{4}$ m. <i>nala</i>, 60', masonry bridge. $5\frac{1}{4}$ m. <i>nala</i>, 80', masonry bridge. $5\frac{1}{4}$ m. Kelaswadi $6\frac{3}{8}$ m. <i>nala</i>, 60'; $7\frac{1}{4}$ m. river, 162' $8\frac{7}{8}$ river, 400'—all masonry bridged. If bridges over the two latter rivers are broken, the route to be taken is from Kelaswadi ($5\frac{1}{4}$ m.) to Chandgal and cross river by means of boats and bamboo rafts. Fordable in dry season only, 2' of water.</p> <p>Camping-ground.—23 acres, S.-E. of town, but, fever being very prevalent here, troops usually should camp at Settihalli $3\frac{1}{2}$ m. further on.</p> <p>Water.—Unlimited; from the Cauvery river and the Bangaradoddi channel, also from the Lokapavani river.</p> <p>Fuel.—10 cart loads at a week's notice.</p> <p>Fodder.—Nil.</p> <p>Supplies.—Grain for 50 men and animals for 1 week. Oxen 10; sheep 30; goats 20. Vegetables <i>nil</i>.</p>
		97m.7f.	
		13	<p>MANDYA.—17 m. 4 f. Road fit for motors. Country flat; soil b. p. r. (4,200). stony. Head-quarters of the sub-district. Madras and Southern Mahratta Railway Station. 2nd class travellers' bungalow. Cross the Lokapavani ($2\frac{3}{8}$ m.) and Cauvery (1 m.) rivers, both bridged.</p>
		115m.3f.	

AUTHORITIES

Civil. Military.

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distance.

MAIN ROUTE NO. VI.

DEPUTY COMMISSIONER OF MYSORE DISTRICT.

GENERAL OFFICER COMMANDING, BANGALORE.

14

116m. 5f.

3 $\frac{3}{4}$ m. Settiballi (700). 6 $\frac{1}{2}$ m. Ganangur (350).
9 $\frac{1}{2}$ m. Sundahapalli (700). 10 $\frac{1}{2}$ m. Indvalu (550).
Camping-ground.—About 25 acres, S.-W. of town.

Water.—For 2,000 men and 1,000 animals, from a tank and pond and 3 wells, when these fail, temporary wells can be sunk in the tank, if previous notice is given.

Fuel.—20 cartloads.

Fodder.—Grazing round town for 200 animals.

Supplies.—Grain for 2,000 men and about 300 animals for 1 day. Oxen 4; sheep 30; goats 20.

MADDUR.—11 m. 2f. Road fit for motors.
b. p. r. (2,200'). Country flat; soil

stony. A travellers'

bungalow at the 128th m. near Somanhalli. There is a grove near the village, on the bank of the Shimsha river, fordable in dry season. The Madras and Southern Mahratta Railway Station of the same name is within 1 m. of the inspection bungalow. Route No. 18 crosses here. 2 $\frac{1}{2}$ m. Hebhulla river, 120'; bridged; always fordable. 5 m. Budanur (1,650). 8 m. Gejjalgere (700).

Camping-ground.—About 10 acres, N. of village, 1 $\frac{1}{2}$ m. off, on bank of Shimsha river.

Water.—Unlimited, from the Shimsha river; except in bad years, when only 1,000 men and 500 animals can be watered by sinking temporary wells in the river bed.

Fuel.—Nil.

Fodder.—Grazing for 500 animals, 2 m. from village.

Supplies.—Grain for 1,000 men and 200 animals for 1 day. Oxen 10; sheep 25; goats 15.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	15	BYRAPATAM.—9m. 5f. Road fit for motors. (900) Country open and cultivated.
		136m. 2f.	1 $\frac{7}{8}$ m. cross the Shimsha river, bridged masonry. 8 $\frac{3}{4}$ m. Mathikere (432). <i>Camping-ground</i> .—About 7 acres. W. of village. <i>Water</i> .—From a tank and a well, for 500 men and 1,500 animals. <i>Fuel, Fodder, Supplies</i> .—Nil.
		16	CLOSEPET —9 m. 5 f. Road fit for motors. b. p. r. (3,500') Country open and flat, except latter part of stage, which
		145m 7f.	is hilly. Post and Telegraph Offices. Madras and Southern Mahratta. Railway Station, with a platform 200 yds. long. At $\frac{5}{8}$ m. there is a long embankment with a small masonry bridge in it. At 1 $\frac{1}{2}$ m. cross river Kanva, by a masonry bridge; the country on either side of the river is deep, marshy, and impassable for troops for the greater part of the year. At 2 $\frac{3}{4}$ m. pass Channapatna (7,600), a large and important village, with a plentiful water-supply from wells and a tank. 1 m. Dodmallur (2,550). 1 $\frac{1}{4}$ m. Chickmallur (400). 2 $\frac{1}{4}$ m. Mangalwarpet (2,300). 5 $\frac{3}{8}$ Vandarguppe (250) 8 $\frac{3}{8}$. Archakarhalli (350). <i>Camping-ground</i> .—8 acres, S. of town, also near Channapatna, S. of the road. <i>Water</i> .—From river; in hot weather, temporary wells will have to be sunk in the river bed. <i>Fuel and Fodder</i> .—Nil.

AUTHORITIES.

MAIN ROUTE NO. VI.

Civil.	Military
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No. of stage and total distance.

DEPUTY COMMISSIONER OF BANGALORE DISTRICT.

GENERAL OFFICER COMMANDING, BANGALORE.

17

155m. 5f.

Supplies.—Grain for 1,000 men and 300 animals for 3 days. Sheep 100; goats 100.

BIDDADI.—9 m. 6 f. Road fit for motors.
r. (1,400). Country partly cultivated and partly

jungle. $\frac{3}{4}$ m. Arkavathy river, 250', masonry bridge, fordable, except in rains. 6 m. Mayigondaivhalli (400). $7\frac{1}{2}$ m. Kemipanhalli (200). $9\frac{1}{2}$ m. Kenchank ppe (500).

Camping-ground.—10 acres, W. of village.

Water.—From a stream and 2 tanks, sufficient for 500 men.

Fuel and Fodder.—Nil.

Supplies.—Grain for 300 men and 200 animals for 2 days. Sheep 50; goats 50.

18

166m. 4f.

KENGERI.—10 m. 7 f. Road fit for motors.
p. r. (1,800). Country hilly and cultivated near the

road. Madras and Southern Mahratta Railway Station. $\frac{3}{4}$ m. Vrishabbavathi river, 100', masonry bridge. 1 m. Bidadi. 2 m. Bilkempanhalli. 4 m. Machanaikenhalli. 5 m. Seshagiri halli. $6\frac{1}{2}$ m. Kanminaki (250). $8\frac{1}{4}$ m. pass Kumbalkod, b., (450).

Camping-ground.—16 acres, E. of village.

Water.—From a stream and tank, for 1,000 men and animals.

Fuel.—In large quantities.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—For 700 men and animals at 15 days' notice.</p>
		19	<p>BANGALORE.—9 m. 3 f. Road fit for motors. <i>b. p. t. r.</i> Vide Main Route No. IV, stage No. 19. 2½ m. Kenchanhalli (200). 5½ m. Battarayanpur (300).</p>
		175m. 7f.	
		20	<p>CAMPING GROUND.—10 m. 6 f. 1½ m. N. of Yelahank a, 95 acres. At 3¾ m. Hebbal (870). 6½ m. Batrampuram (400). 9¾ m. Yelahanka (2,350). <i>Water.</i>—2 wells and 1 tank at the latter place. <i>Fuel.</i>—100 cartloads, from Yelahanka. <i>Fodder.</i>—Nil. <i>Supplies.</i>—For 1,000 men and animals at 20 days' notice.</p>
		186m. 5f.	
		21	<p>JOGIPALLI.—17 m. 0 f. Road fit for motors. r. (176) Country partly cultivated. Madras and Southern Mahratta Railway Station. 1½ m. Yelahanka (2,336). 1¾ m. Puttan Halli (90). 2½ m. Ranagonda Halli (285). 3½ m. Avahphalli (227). 5¾ m. Hollehalli (69). 6¾ m. Rajarukunte (168). 11½ m. Hosalundga (55). 13¾ Bassettipalli (246). 14¼ m. Sondihalli (155).</p>
		203m. 5f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
DEPT. COMR. OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<i>Camping-ground.</i> —For a regiment, W. of road and 1 furlong sq., 1 m. N. of Dodballapur.
			<i>Water.</i> —From tanks and well, for about 2,000 men and 5,000 animals.
			<i>Fuel.</i> —Only obtainable on one or two weeks' notice.
			<i>Fodder.</i> —Grazing: 20 acres for 100 animals only.
			<i>Supplies.</i> —Grain for 1,000 men and 500 animals from Dodballapur; with notice, larger supplies obtainable. Sheep 50; goats 50.
		22	THONDEBHAVI.—9 m. 4 f. Metalled road, fit for motors.
		213m. 1f.	Country open and cultivated. Madras and Southern Mahratta Railway Station. Cross river Pennair, unbridged. Pass Katanainahalli and Basavapura, also numerous small <i>nalas</i> , all bridged.
			<i>Camping-ground.</i> —31 acres, N. of village.
			<i>Water.</i> —1 stream and 3 wells, for 500 men and 200 animals.
			<i>Fuel.</i> —5 tons at a fortnight's notice.
			<i>Fodder.</i> —Nil.
			<i>Supplies.</i> —Grain for 500 men and 200 animals for 3 days at a fortnight's notice. Sheep 200; goats 50. Vegetables 50 maunds at 14 days' notice.
		23	DODKURUGOD.—13 m. 3 f. Metalled road, fit for motors.
		226m. 4f.	Country open and cultivated. Madras and Southern Mahratta Railway Station. 3 m. Potanahalli (350), 5 m. Halkur (1,000). 7 m. Gollahalli (200). 8 m. Malanahalli (500).
DEPUTY COMMISSIONER OF KOLAR DISTRICT.			

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>Goribidnur (2,300). Cross Pinakini river, 510', masonry bridged. $9\frac{1}{2}$ m. Chickakuragodu (850). Cross Mugin <i>nila</i>, 500', masonry bridged. <i>Camping-ground</i>.—25 acres, S.-E. of village. <i>Water</i>.—From Pinakani river, 1 tank and 1 well, for 500 men and 200 animals. <i>Fuel and Fodder</i>.—Nil. <i>Supplies</i>.—At 14 days' notice. Grain for 500 men and 200 animals for 3 days. Sheep 200; goats 50. Vegetables 50 maunds.</p>
		24	<p>HINDUPUR.—11 m. 0 f. Metalled road, fit for <i>p. t. r.</i> (11,935). motors, but not very good after Mysore frontier is passed. Madras and Southern Mahratta Railway Station. Cross 2 <i>nalas</i>, unbridged. At 6 m. Basananapalli (1,329). 7 m. Sadlapatti. <i>Camping-ground</i>.—No Government ground, but 6 acres available N. of the town. <i>Water</i>.—For 10,000 men and animals. <i>Fuel</i>.—100 lbs. only available. <i>Fodder</i>.—Grazing <i>nil</i>. <i>Supplies</i>.—Grain for 1,000 men and animals can be supplied, if notice given. 20 Sheep; 50 goats. Vegetables 100 lbs.</p>
COLLECTOR OF ANANTAPUR.		237m 4f.	
		25	<p>MALAGUR.—7 m. 0 f. Metalled road, but in bad repair. Country open and cultivated. Madras and Southern Mahratta Railway Station. Cross 2 streams, unbridged. <i>Camping-ground</i>.—For a regiment, E. of road, 2 miles N. of village. <i>Water</i>.—For 1,000 men and animals.</p>
		244m. 4f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Fuel</i>.—1,000 lbs. <i>Fodder</i>.—Grazing <i>nil</i>. <i>Supplies</i>.—Large quantity of grain, wheat, etc., available. Oxen 5; sheep 20; goats 20; 100 lbs. vegetables obtainable, and on market day (Friday), when large supplies can be had.</p>
		26	
		256m. 7f.	<p>PENUKONDA.—12 m. 3 f. Metalled road, good repair, fit for motors. Country hilly, open, and cultivated; soil stony, hard and dry. 3 m. stream, 60', unbridged, fordable. 4 m. Chalakur. 6 m. Brahmanapalli. 8 m. Chakralapalli. Residence of Assistant Collector. Madras and Southern Mahratta Railway Station. <i>Camping-ground</i>.—About 15 acres, S.-E. of town. <i>Water</i>.—For 1,000 men and animals, from a tank and draw-wells; only 100 men can be watered in a dry year, as the tank dries up. <i>Fuel</i>.—Scarce. <i>Fodder</i>.—400 acres grazing 4 m. from town. <i>Supplies</i>.—Grain for 1,000 men and animals for 4 days with notice. Sheep 15; goats 10. Vegetables 2 maunds.</p>
		27	
		263m. 7f.	<p>KOTTUR OR.—7 m. 0 f. Metalled road, fit for motors. Country cultivated both sides of road. 2 m. Thimmapuram. 3 m. stream, 25' unbridged, fordable. 5 m. Ammavaripalli. 6 m. stream, 40', unbridged, fordable. Madras and Southern Mahratta Railway Station.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping-ground.</i>—About 20 acres, N. of village.</p> <p><i>Water.</i>—For 600 men and animals, from a tank and wells; in dry years, only half this quantity can be had.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—200 acres of grazing 3 m. from village.</p> <p><i>Supplies.</i>—Grain for 500 men and animals for 2 days. Sheep 4; goats 4.</p>
		28	<p>CHINNA KOTAPALLI.—7 m. 0 f. Metalled b. p. t. road, fit for motors. Country cultivated and open. The Post Office is 3 m. and the Telegraph Office is 3½ m. N. of Nagasamudum Railway Station. At 4. m. small stream, unbridged, fordable.</p> <p><i>Camping-ground.</i>—For 2 Infantry Brigades; N. W. of village.</p> <p><i>Water.</i>—For 2 Infantry Companies, men and animals, from a stream and wells; the stream dries up in summer.</p> <p><i>Fuel.</i>—Limited.</p> <p><i>Fodder.</i>—Grazing for about 200 animals. Forest Reserve lands within 3 m.</p> <p><i>Supplies.</i>—Rice and grain sufficient for men and animals of 1 Company of Infantry for 2 or 3 days. Sheep 50; goats 20.</p>
		270m. 7f.	
		29	<p>DADALUR.—7 m. 7 f. Road fit for motors. (1,150). Country open and cultivated. Cross river Palativanka, unbridged; it forms a very slight obstacle in dry weather. 2 smaller</p>
		278m. 6f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, GENERAL OFFICER COMMANDING, BANGALORE.			streams unbridged, fordable. 1½ m. Yerrahilli 3 m. Dyamajipalli. <i>Camping-ground</i> .—S. of village, for 1½ Infantry Brigades. <i>Water</i> .—From a stream and wells, for men and animals of 2 Battalions. <i>Fuel</i> .—Very limited. <i>Fodder</i> .—Very limited. <i>Supplies</i> .—Sheep 30; goats 20.
		30	MARUR.—7 m. 6 f. Metalled road, fit for (2,558). motors. Country open. Cross several small
		286m. 4f.	streams, unbridged, fordable. At 3 m. Mamillapally; 4 m. Maktupuram (together 1,475). <i>Camping-ground</i> .—About 30 acres, E. of village. <i>Water</i> .—For 3,000 men and animals, from 3 wells at all seasons. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Grazing: 400 acres in rainy season, for 1,000 animals. <i>Supplies</i> .—For 300 men and 1,000 animals at 1 week's and 2 months' notice, respectively. Sheep and goats 100 each.
		31	ANANTAPUR.—13m. 6f. Road fit for motors. b.p.t.r. (8,450). Country open. Madras and Southern Mah-
		300m. 2f.	ratta Railway Station. Road to Bellary branches off west. Cross the Gandamar stream, unbridged (it took the transport of a Regiment ½ an hour to cross with the help of one Company). Route No. 23 crosses here. 2 m. Gollapatti (250), 6m. Raminpatti (150), 9 m. Raptodu (2,043).

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping-ground.</i>—About 34 acres, S.-S.-W. of town.</p> <p><i>Water.</i>—For about 3,000 men and animals, from 3 wells at all seasons.</p> <p><i>Fuel.</i>—1 ton.</p> <p><i>Fodder.</i>—Grazing: 17 acres, for 100 animals.</p> <p><i>Supplies.</i>—Grain for 3,000 men and 1,000 animals. Oxen 2; sheep 500; goats 50—after sufficient notice. Vegetables on market days.</p>
		32	<p>GARALADINNA.—8 m. 4 f. Metalled road, fit for (908). for motors. Country partly cultivated and open. At 6 m. Vaddampetta (200), and cross the river Tadkalaru, unbridged, fordable. 8 m. Kuttaputti (200).</p> <p><i>Camping-ground.</i>—About 7½ acres, E.-N.-E. of town.</p> <p><i>Water.</i>—From wells, for 1,000 men and 500 animals at all seasons.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing scarce.</p> <p><i>Supplies.</i>—Grain for 500 men and 100 animals at a week's notice. Sheep 50; goats 50. Vegetables nil.</p>
		308m. 6f.	
		33	<p>PAMIDI.—8 m. 5 f. Metalled road, fit for p.t.r. (8,000). motors. Country open and sparsely cultivated on one side of the road, and Forest Reserve on the other. At 6½ m. cross Pennar river, unbridged, fordable except after heavy rain, ordinarily 1,100 yds. wide; alternative crossing, entrain at Kallur to Pamidi.</p>
		317m. 3f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.	
Civil.	Millitary.			
COLLECTOR OF ANANTAPUR.			<p><i>Camping-ground.</i>—Government ground, N. of town, for 1 Battalion; also 36 acres, in scattered lots, is available close by.</p> <p><i>Water.</i>—From wells, for men and animals for 1 Infantry Company only.</p> <p><i>Fuel.</i>—Unlimited; from Forest Reserve.</p> <p><i>Fodder.</i>—Very limited quantity available.</p> <p><i>Supplies.</i>—Grain for men and animals of 1 Infantry Brigade for 1 week. Oxen 500; sheep 1,400; goats 600.</p>	
		34	<p>GOOTY.—12 m. 7 f. Metalled road, fit for (7,140). Country open and cultivated.</p>	
GENERAL OFFICER COMMANDING, BANGALORE.		330 m. 2 f.	<p><i>p.l.r.</i> Madras and Southern Mahratta Railway Station $1\frac{1}{2}$ m. from village. Route No. 38 crosses and Route No. 51 joins here. Cross the Gagadur Vunka, unbridged. At 2 m. Niller (248). Also <i>nala</i>, 30 yds., unbridged, fordable, except after heavy rain. $2\frac{1}{2}$ m. Pogurura (182). $2\frac{3}{8}$ m. Gozadampalli (500). $3\frac{3}{8}$ m. Miduttur (504). $4\frac{1}{8}$ m. village (529). 5 m. Arankepuram (1,130). 6 m. Turathapalli (389). Also stream, 400 yds., unbridged, fordable, except in rain.</p> <p><i>Camping-ground.</i>—5,000 acres, W. of town.</p> <p><i>Water.</i>—1 tank and 1 well, for 1,000 men and 500 animals.</p> <p><i>Fuel.</i>—Cut, 500 maunds stacked.</p> <p><i>Fodder.</i>—Grazing for 1,000 animals $\frac{1}{2}$ m. from town, also 30 cart loads of hay.</p> <p><i>Supplies.</i>—Grain for 1,000 men and animals for 3 days. Oxen 4; sheep 150; goats 50. Vegetables 5 maunds.</p>	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF KURNOOL.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	35	PEAPULLY.—11 m. 4 f. Metalled road, fit for b.p. (3,109). Country rocky, barren and hilly; soil hard and stony. Cross a <i>nala</i> , unbridged, road dam. Route No. 49 joins here. At 7 m. Pothedoddi (559). <i>Camping-ground</i> .—17 acres, S.-W. of dak bungalow, also 30 acres in the vicinity. <i>Water</i> .—From 2 wells, for 1,000 men and animals. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Can be supplied for 1000 animals at 2 weeks' notice. <i>Supplies</i> .—For 1,000 men and animals at 14 days' notice. Sheep 1,000; goats 1,000.
		341 m. 6 f.	
		36	YENNIGAMARRI.—5 m. 6 f. Metalled road, (1,300). fit for motors, but in fair repair only. Country cultivated. Cross several <i>nalas</i> , unbridged. <i>Camping-ground</i> .—In Government tope 8½ acres, also patta land 30 acres close. <i>Water</i> .—Supply for 800 men and animals, from wells within 2 furlongs from camping-ground. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Can be supplied for 1,000 animals for 3 days at 1 month's notice. <i>Supplies</i> .—For 1,000 men and animals for 3 days at 1 month's notice.
		347 m. 4 f.	
		37	DHONE.—9 m. 5 f. Road metalled, fit for b. p. l. r. (4,030). Country cultivated. At 6 m. Kothapalli (850). Cross several small <i>nalas</i> unbridged.
		357 m. 1 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF KURNOOL.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Camping-ground.</i>—23 acres patta lands can be occupied free during hot months, but in cultivation season, compensation must be paid for crops.</p> <p><i>Water.</i>—For 1,000 men and animals, from wells and the spring channel. Scarce in dry seasons.</p>
		38	VELDURTI.—11 m. 3 f. Road metalled, fit for b.p. (3,450). motors. Country cultivated. At 2½ m.
		368 m. 4 f.	<p>Udumalapadu (1,000). 8 m. <i>nala</i>, 80', road dam. 9 m. Madurapuram.</p> <p><i>Camping-ground.</i>—Government ground <i>nil</i>, but 20 acres of patta lands are available free, when not cultivated.</p> <p><i>Water.</i>—For 800 men, from 2 wells near camping-ground; and for 800 animals, from the Vanka close by—these give out in a dry year.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—</p> <p><i>Supplies.</i>—</p>
		39	<p>CHINNA-TEKUR.—12m. 2½ f. Road in good b. (950). repair, fit for motors. Country open and cultivated. ½ m. <i>nala</i>, 100', bridged. 2 m. Bommireddi. 6½ m. Ulivandekonda (2,250).</p> <p><i>Camping-ground.</i>—15 acres, E. of village.</p> <p><i>Water.</i>—Spring channel and 3 wells, sufficient for 1,000 men and animals.</p> <p><i>Fuel.</i>—10 cartloads.</p> <p><i>Fodder.</i>—Grazing for 100 animals, 2, m. from village.</p> <p><i>Supplies.</i>—Grain for 100 men and animals. Sheep 30; goats 30.</p>

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI.
Civil.	Military.		
COLLECTOR OF KURNOOL.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	40	<p>KURNOOL.—9 m. 6 f. Road fit for motors. Country open and cultivated. Headquarters of the district. Routes Nos. 26 and 45 cross, and Route No. 50 joins here. 1 m. <i>nala</i>, unbridged, 25', fordable. 5½ m. Dimadi-varapad (900).</p> <p><i>Camping-ground</i>.—Good; 15 acres, S.-W. of town.</p> <p><i>Water</i>.—Pipe supply unlimited; and, for animals, from channel running close to camping-ground.</p> <p><i>Fuel</i>.—30 tons.</p> <p><i>Fodder</i>.—Grazing, ½ m. distant for 100 animals.</p> <p><i>Supplies</i>.—Food and grain for any number of men and animals. Oxen 28; goats 50; sheep 50. Vegetables in large quantities.</p> <p>For continuation, see Vol. VI, Indian Route Book.</p>
		390 m. 4½ f.	

ROUTE No. VI (1)

FROM WELLINGTON TO KOTAGIRI.

An unmetalled road, but fit for traffic at all seasons of the year.

Direction.—North-West by East.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (1).
Civil.	Military.		
COLLECTOR OF NILGIRIS, OOTACAMUND	G. O. C. MADRAS DISTRICT WELLINGTON.	..	WELLINGTON. <i>p. t. r.</i>
		I	KOTAGIRI.—11 m. 2½ f. <i>p. t.</i>
		11 m. 2½ f.	

MAIN ROUTE No. VI (2).

FROM BEGUR TO NEAR ANTERSANTE.

Length.—30 m. 6 f.

2 stages.

Cross the Bhrugu and Kapila rivers, unbridged. Road fit for traffic in the hot season, but gets heavy in the rains.

Direction.—West by North

DEPUTY COMMISSIONER OF MYSORE DISTRICT.	G. O. C. BANGALORE.	..	BEGUR.— <i>b. p.</i>
		I	SARGUR.—20 m. 7 f.—A vacant site is kept <i>p.</i> open for a camping-ground; water from the Kapila, which is
		20 m. 7 f.	3 furlongs distant. Grass and grain obtain- able.
		2	ANTARSANTE.—9 m. 7 f. <i>b. p.</i>
		30 m. 6 f.	

MAIN ROUTE No. VI (3).
FROM NANJANGUD TO TIRUMAKULDU-
NARSIPUR.

Cross several large *nalas*, unbridged.
 Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO VI. (3).
Civil.	Military		
DEPY. COMR. OF MYSORE DISTRICT.	G. O. C. BANGA- LORE.	..	NANJANGUD. <i>b. p. t. r.</i>
		1	TIRUMAKULDU-NARSIPUR. 17 m. 0 f. <i>b. p.</i>
		17 m. 0 f.	

MAIN ROUTE No. VI (4).

FROM MANDYA TO FRENCH ROCKS.

This road leaves Route No. VI at the native rest-house, 6 m. 2 f. beyond Mandya; it is made and practicable at all seasons, the only unbridged stream being the Lokapavani.

Direction.—West.

DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING BANGALORE.	..	MANDYA. <i>p. r.</i>
		1	FRENCH ROCKS. 14 m. 2 f.—Once a mili- <i>p. b. r.</i> tary cantonment.
		14 m. 2 f.	The road branches from Route VI at the Lingaraja chattram. 6½ m. beyond Mandya, and meets Routes Nos. 26 and 15, the former junction at the French Rocks town, 8½ m., and the latter 3½ m. beyond French Rocks, 2nd class Bungalow, Madras and S. Mahratta railway station. Cross the Lokapavani river, unbridge ! <i>Camping-ground.</i> —No Government ground, but some high ground, S. of town, available. <i>Water.</i> —From the tank close by. <i>Supplies.</i> —Abundant.

MAIN ROUTE No. VI (5).

FROM BANGALORE TO MAMILAPILLI.

Length.—119 m. 0½ f.

10 stages.

Road metalled and well shaded by trees as far as Kodur, thence a fair-weather road over hard and gravelly soil, neither metalled nor bridged, but generally practicable for carts in ordinary monsoon weather. Country hilly between Kodur and Kottacheruvu. Direction.—North.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (5).
Civil	Military.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING BANGALORE.	..	BANGALORE.
		1	<i>b. p. t. r.</i>
		9 m. 2 f.	YELAHANKA.—9 m. 2 f. A large village. Madras and S. Maratta Railway. All <i>nalas</i> bridged.
		2	<i>b. p. r.</i>
		22 m. 2 f.	DEVANHALLI.—13 m. 0 f. A large village. <i>b. p. r.</i> (7,000). Country flat and partly cultivated, <i>nalas</i> bridged.
			<i>Camping-ground</i> .—2 acres. There is also ground for 1 Brigade at 10½ m. W. of Road near Hamlet of Chiksunni where there is a well, but water for troops could be obtained from a tank W. of <i>camping ground</i> .
			<i>Water</i> .—For 100 men and animals from a tank and wells but which fail during hot weather.
			<i>Supplies</i> .—At 15 days' notice.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (5).
Civil.	Military.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING BANGALORE.	3	<p>CHEDALPUR.—9 m. 3 f. A small village. At (300). 3 m. W. Nandidroog Hill 4,851 ft. high.</p> <p><i>Camping-ground.</i>—35 acres. <i>Water.</i>—For 400 men and 250 animals, from 2 tanks and 2 wells during hot season; supply unlimited during rains. <i>Supplies.</i>—For 500 men and 300 animals at 1 month's notice.</p>
		31 m. 5 f.	
		4	
		41 m. 5 f.	<p>HUNECAL OR WONAIKAL.—10 m. 0 f. A small village. Country hilly. Post and telegraph offices at Chikballapur, 3¼ m. distant; approaches from road bad.</p> <p><i>Camping-ground.</i>—30 acres. <i>Water.</i>—From a tank and a well for 50 men and 35 animals during hot season; unlimited during rains. <i>Supplies.</i>—For 350 men and 150 animals at a month's notice.</p>
		5	<p>VARLAKONDE.—10 m. 3 f. A small village. Country hilly and barren.</p> <p><i>Camping-ground.</i>—About 45 acres. <i>Water.</i>—Unlimited during rains; from 3 wells and 2 tanks, but very limited in hot season. <i>Supplies.</i>—For 500 men and animals at 20 days' notice.</p>
		52 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (5).
Civil.	Military.		
COLLECTOR OF ANANTAPUR.	GENERAL OFFICER COMMANDING BANGALORE.	6	
		61 m. 4 f.	GANTWARPALLI.—9 m. 4 f. A small village. Country barren and hilly. Bagepalli— <i>p.</i> , a large village, is 1½ m. E. There is another and shorter road across the hills from here to Kolar. <i>Camping-ground</i> .—300 yds E. of road. <i>Water</i> .—Good; from wells, tank and river. <i>Supplies</i> .—Limited.
		7	
		69 m. 0 f.	KODURU.—7 m. 4 f. Country and soil gravelly and sloping towards river. <i>Camping-ground</i> .—11 acres. <i>Water</i> .—For 2,000 men and animals, from a tank; 2 wells and river Kusavati; in dry season, the wells only can be depended on. <i>Supplies</i> .—For 1,000 men and animals at 1 month's notice.
		8	
		95 m. 2 f.	KOTTACHERUVU.—26 m. 2 f. <i>p.</i>
		9	
		112 m. 2 f.	DHARMAVARAM.—17 m. 0 f. Cross the Parurvenka, unbridged. <i>p. t. r.</i>
		10	
		119 m. ½ f.	MAMILAPILLI.—6 m. 6½ f. Cross one stream; (3½ m. from DADALUR). unbridged.

MAIN ROUTE No. VI (6).

FROM DODBALLAPUR TO CHIKBALLAPUR.

As far as Dodballapur, this is a mere track, but practicable at all seasons; a steep hill, 2 m. long, over the Nandidroog range of hills, is in this section; beyond Dodballapur, the road is made and bridged and practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (6).
Civil.	Military.		
D. C. of BANGALORE DISTRICT.	G. O. C., BANGALORE.	..	DODBALLAPUR. <i>b. p. t. r.</i>
D. C. of KOLAR.	G. O. C., BANGALORE.	1	CHIKBALLAPUR.—16 m. 0f. <i>b. p. t.</i>
		16 m. 0f.	

MAIN ROUTE No. VI (7).

FROM THONDEBHAVI TO SIRA.

A track scarcely practicable for loaded carts at any season on account of the numerous *naals* and steep gradients.

Direction.—North-West.

D. C. OF TUMKUR.	D. C. OF KOLAR.	G. O. C., BANGALORE.	..	THONDEBHAVI. <i>r.</i>
			1	MADDAGIRI.—12 m. 2f. <i>b. p.</i>
			12 m. 2f.	
			2	SIRA.—23 m. 0f. Cross some small streams, <i>b. p. t.</i> unbridged.
			35 m. 2f.	

MAIN ROUTE No. VI (8).
FROM GORIBIDNUR TO SADLI.

A made road, practicable at all seasons.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (8).
Civil	Military.		
D. C. OF KOLAR, KOLAR.	G. O. C. BANGALORE.	..	GORIBIDNUR.
		1	<i>p. t. r.</i> GUDISANDA.—13 m. 0 f. <i>p.</i>
		18m. 0f. 2	PERESANDRA.—11 m. 0 f. <i>b. p.</i>
		29m. 0f. 3	SADLI.—5 m. 7 f. <i>p.</i>
		34m. 7f.	

MAIN ROUTE No. VI (9).
FROM KODIKONDA TO MADAKASIRA.

A fair-weather road, impracticable in the rains.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (9).
Civil	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	G. O. C. BANGALORE.	..	KODIKONDA.
		1	<i>p.</i> CHELMATOR.—4 m. 3 f. Cross the Chitrayati river, unbridged.
		4m. 3f. 2	HINDUPUR.—16 m. 6. f.—A very large village. <i>p. t. r.</i>
		21m. 1f. 3	MADAKASIRA.—22 m. Cross the Kushavati, Penner and Jaimangalam rivers, unbridged. <i>p.</i>
		43 m. 1 f.	

MAIN ROUTE No. VI (10).

FROM KODURU TO SOMANDAPALLI.

Road metalled.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO VI. (10).
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING BANGALORE.	..	KODURU.
		1	PALASAMUDRAM.—9 m. 0 f. A good-sized village; camping-ground about 15 acres; supplies for 5,000 men and animals at a month's notice; water for 2,000 men and 2,000 animals, from a tank and 2 wells—former dries up in hot weather; country rocky and hilly; cross the Chitravati river, unbridged. It took half an hour for the transport of a regiment to cross with the help of two companies.
		9 m. 0 f.	
		2	
		14 m. 0 f.	SOMANDAPALLI.—5 m. 0 f.

MAIN ROUTE No VI (11).
FROM MAMILAPILLI TO RAYADRUG.

Cross the Penner and some streams, unbridged. Road gravelled, but not bridged as far as Kalyandrug, thence unmade, but generally practicable in the rains, except where it passes over black cotton soil.

Direction.—West by North.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (11).
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	G. O. C. BANGALORE.	..	MAMILAPILLI.
		1	KALYANDRUG.—38 m. 2 f. p.
		33 m. 2 f.	
COLLECTOR OF BELLARY, BELLARY.	G. O. C.	2	RAYADRUG.—22 m. 1 f. p. t.
		60 m. 3 f.	

MAIN ROUTE No. VI (12).
FROM ANANTAPUR TO TADPATRI RAILWAY STATION.

Partially metalled, gravelled and bridged, practicable at all times.

Direction.—North-East.		No. of stage and total distance.	MAIN ROUTE NO. VI (12).
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	G. O. C. BANGALORE.	..	ANANTAPUR. b. p. t. r.
		1	TADPATRI RAILWAY STATION.—33 m. 4 f. p. t. r.
		33 m. 4 f.	

MAIN ROUTE No. VI (13).
FROM PEAPULLY TO JONNAGIRI.

Gravelled throughout and partly bridged, practicable at all seasons.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. VI (13).
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	G. O. C. MADRAS DISTRICT. WELLINGTON.	..	PEAPULLY. <i>b. p.</i>
		1	JONNAGIRI.—12 m. 4 f.
		12 m. 4 f.	

MAIN ROUTE No. VI (14).
FROM PEAPULLY TO GIRRIGUTLA.

A fair-weather track only.

Direction.—West by North.

COLLECTOR OF KURNOOL, KURNOOL.	G. O. C. MADRAS DISTRICT. WELLINGTON.	..	PEAPULLY. <i>b. p.</i>
		1	GIRRIGUTLA.—16 m. 4 f.
		16 m. 4 f.	

MAIN ROUTE No. VI (15).

FROM NEAR YENNIGAMABRI TO KODUMUR.

Cross two branches of the Hindri river. unbridged, a fair-weather track only.

Direction.—North by West.

AUTHORITIES.		No. of stages and total distance.	MAIN ROUTE NO. VI. (15)
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	G.O.C. MADRAS DISTRICT, WELLINGTON.	..	NEAR YENNIGAMABRI.
		1	KODUMUR.—23 m.
		23 m. 0 f.	2.

MAIN ROUTE No. VI (16).

FROM VELDURTI TO SOMAYAZULAPALLI.

A fair-weather track only.

Direction.—East-North-East.

COLLECTOR OF KURNOOL, KURNOOL.	G.O.C. MADRAS DISTRICT, WELLINGTON.		VELDURTI. b. p.
		1	SOMAYAZULAPALLI.—18 m. 0 f.
		18 m. 0 f.	

MAIN ROUTE NO. XVII.

FROM MADRAS TO BOMBAY.

(PORTION FROM MADRAS TO PONDUGULA.)

Length 286 m. 1 f.

25 stages.

Authority and date.—General Officer Commanding 9th Division, Jan. 1919.

General direction of road is North up to Ongole thence N.-W. From Secunderabad to Rajasore, the road is a first class one, metalled and bridged, but not kept in good repair, and in some parts is not passable even for bullock carts.

There is an alternative route *vid* Gulbarga, Volume VI, which is a fair-weather track only, and would only be used when this Route *vid* Haminabad is closed for some reason. Notice required for supplies in some stages.

AUTHORITIES.		No. of stage and total distance.	MAIN ROUTE NO. XVII.
Civil.	Military.		
COLLECTOR OF GUNTUR.	GENERAL OFFICER COMMANDING MADRAS DISTRICT.	25	BY ROUTE NO. III For remarks see Main to PONDUGULA.—Route No. III, stages b. 1 to 25. For continuation, see volume VI, Indian Route Book.
		286m. 1f.	

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12	Rennad	Valapady	Tirupatur, Pudukottah, Trichinopoly, Malhar.	359
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17	Adirampattanam	Tutampatti	Tutukota, Gandharvavota, Sengipatti, Trichinopoly, Namakkal, Changanasser.	419
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PART II.

DESCRIPTION OF MINOR ROUTES.

157—158

11/11/49

RECEIVED ROYAL MAIL

11-11-49

ROUTE NO. 1.

FROM CAPE COMORIN TO PALAMCOTTAH.

Length.—60½ m.

5 stages.

Authority and date.—General Officer Commanding 9th Division, January 1919.

Direction.—North. The road is metalled and bridged, practicable at all seasons for wheeled transport, last stage only fit for motors.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 1.
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	1	CAPE COMORIN.— <i>p.</i> <i>Camping-ground</i> —About 1 sq. m. N. of village. additional space <i>nil</i> . <i>Water</i> .—From wells, tanks and irrigation channels (June to February); plentiful supply. <i>Fuel and Fodder</i> .—Nil. <i>Supplies</i> .—Nil.
		20 m.	ARAMBOLY.—20 m. 0f. Metalled road, fit for all transport. <i>p.</i> (1,139). Wet cultivation, hilly at 3 m. 0f. At 8 m. cross Palayar river, 180', stone bridge, fordable, boats available. Cross a stream and various canals, all bridged. 3¾ m. Kollaram (1,200). 8 m. Suchindaram (2,546). 11½ m. Kottar (29,850). 18¾ m. Thovala (615). <i>Camping-ground</i> .—½ sq. m., S. and E. of village. <i>Water</i> .—From tanks and wells, for 6,000 men and 1,000 animals.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 1.
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	2	<p><i>Fuel</i>.—Cut and plentiful.</p> <p><i>Fodder</i>.—Grazing for 4,000 animals, 1 m. from village.</p> <p><i>Supplies</i>.—Grain, limited. Oxen 3,000; sheep 1,600. Vegetables in large quantities.</p>
		31 m. 6 f.	<p>VALLIYAR.—11 m. 6 f.—11 m. 6 f. Metalled (7,350). road, fit for wheeled transport. Country undulating at first, thence flat, open, and cultivated, and patches of jungle. At 7. m. pass Panagudi (4,880), where Route No. 4 joins. Cross 1 stream, bridged.</p> <p><i>Camping-ground</i>.—27 acres N. and 17 acres S. of town.</p> <p><i>Water</i>.—From 5 wells and a tank, for 100 men and animals.</p> <p><i>Fuel</i>.—Obtainable from Forest Reserve, 6 m. distant.</p> <p><i>Fodder</i>.—Grazing as above.</p> <p><i>Supplies</i>.—Grain for 100 men for 2 days. Sheep and goats and 10 cartloads of vegetables on Fridays only.</p>
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	3	<p>NANGUNERI.—9 m. 4 f. Metalled road, fit p. t. b. (4,800). for wheeled transport. Country open and cultivated: 4½ m. Dalapattisamudgam (4,300). 5½ m. stream, 100 yards, bridged.</p> <p><i>Camping-ground</i>.—For 300 men, N. of town.</p> <p><i>Water</i>.—From a tank and 10 wells, for 500 men and 200 animals.</p> <p><i>Fuel</i>.—3 tons.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 300 men for 2 weeks and for 100 animals for 1 week. Sheep 100; goats 100.</p>
		41 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 1.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	4	<p>PANAGUDI.—10 m. 4 f. Metalled road, fit for wheeled transport. 8½ m. Valliyur (7,370). 9¾ m. stream, 100', bridged.</p> <p><i>Camping ground.</i>—½ sq. m., W. of village.</p> <p><i>Water.</i>—For 100 men and animals, from a tank and 10 wells.</p> <p><i>Fuel.</i>—3 tons.</p> <p><i>Fodder.</i>—Grazing nil.</p> <p><i>Supplies.</i>—Grain for 100 men and animals for 1 week. Sheep 100; goats 50.</p>
		51 m. 6 f.	
		5	
		60 m. 2 f.	<p>PALAMCOTTA—8 m. 4 f. A large Municipal Town, road fit for motors.</p> <p>South Indian railway station, 1½ m. from town.</p> <p>Country flat and open. Routes Nos. 5 and 10 join and Route No. 3 crosses here.</p> <p><i>Camping ground.</i>—100 acres, S. of the late fort.</p> <p><i>Water.</i>—For 500 men a day, from a tank.</p> <p><i>Supplies.</i>—For 1,000 men and 300 cattle at a week's notice.</p>

ROUTE No. 1 (1).

FROM VIZIAPATTI TO ERUVADI.

A fair-weather road as far as Radhapuram, 4 miles, thence metalled and bridged and practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 1 (I).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	VIZIAPATTI.
		1	VALLIYAR.—14 m. 0 f.
		14m. 0f.	
		2	ERUVADI.—3. m. 0 f.
		17m. 0f.	p.

ROUTE No. I (2).

FROM VIZIAPATTI TO KALAKAD.

Metalled and bridged, practicable at all seasons.

Direction.—North-West.

COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	VIZIAPATTI.	On the coast.
		1	NANGUNERI.—21 m. 0f.	b. p. t.
		21m. 0f.		
		2	KALAKAD.—7 m. 0f.	p.
		28m. 0f.		

ROUTE NO. 2.

FROM CAPE COMORIN TO BHATKAL.

Length.—526½ m.

59 stages.

Authority and date.—General Officer Commanding 9th Division. Jan. 1919.

Epitome.—The road is metalled and bridged and practicable at all seasons as far as Quilon, thence to stage 31, it is a mere track running along the sea coast, with a great number of unbridged backwater to be crossed, and composed entirely of heavy sand. It may be said to be difficult, indeed, in some places, impracticable for carts at all seasons. From stage 31 to stage 41, the road is good and practicable at all seasons, the unbridged rivers being crossed in boats. As a military communication between the stations on the western coast, this road is useless, and troops should be moved either by sea or, in the monsoon season, by inland water communications, which exist nearly throughout the whole length of the coast.

The old road between Kawai and Hosdrug *via* Kathacheri has been abandoned. The road now used by foot passengers is that *via* Chandare and Nileshtar, which also is only a sandy track up to within 2 miles of Hosdrug. Infantry can also be conveyed in boats from Paliapatam to Hosdrug at all seasons. The road between Hosdrug and end of stage is metalled, and fit for all transport. It is practicable at all seasons, the unbridged rivers being crossed by ferry boats, the number of which can be increased, if sufficient previous notice is given. Good water is available at all the stages, and supplies also, if notice be given.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.	
Civil.	Military.			
R. IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	1	CAPE COMORIN.— <i>Vide</i> Route No. 1.	
		11m. 6f.	KOTAR OR—11 m. 6 f. Metalled road, fit for wheeled transport. Country paddy fields. NAGERCOIL. b. p. t. (29,900).	

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Mili- tary.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		<p>A road turns S. at 6 m. 6 f. to Mannargudi, on the coast, $3\frac{1}{2}$ m. W. of Cape Comorin.</p> <p>At $3\frac{3}{8}$ m. Kottaram (1,200). $7\frac{3}{8}$ m. stream, masonry bridge. 8 m. Suchindram (4,000) and cross river, 180', iron and masonry bridge. $9\frac{1}{8}$ m. 2 channels, 40', masonry bridges, up to 15 tons.</p> <p><i>Camping-ground</i>.—1 sq. m., 1 m. W. of town.</p> <p><i>Water</i>.—4 tanks and numerous wells.</p> <p><i>Fuel</i>.—10 tons daily.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain, plenty available. Oxen 800; sheep 300; goats 300. Vegetables available at markets on Thursday and Sunday.</p>
		2	UDAGIRI.—8 m. 3 f. Metalled road, fit for b. (1,000). wheeled transport.
		20 m. 1 f.	Country flat and open, wet cultivation, becomes hilly near fort. $2\frac{1}{4}$ m. Ravarthivagaram (650). Canal, 18', stone bridge. $6\frac{3}{8}$ m. canal, 30', stone bridge. Villukuri (820). $7\frac{7}{8}$ m. canal, 38', stone bridge.
		3	<p><i>Camping-ground</i>.—$\frac{1}{4}$ sq. m., E. of town, in old fort.</p> <p><i>Water</i>.—30 tanks and 50 wells, for 1,000 men and 6,000 cattle.</p> <p><i>Fuel</i>.—Cut, fair supply stacked.</p> <p><i>Fodder</i>.—1 sq. m. grazing, 2 m. distant.</p> <p><i>Supplies</i>.—A large supply of paddy. Oxen 500; sheep 200; goats 200. Vegetables in fair quantities.</p>
		30 m. 3 f.	<p>KULITURAL.—10 m. 2 f. Metalled road, fit for b. (3,000). for wheeled transport. Undulating wooded country (palmyra trees).</p>

ROUTE NO. 2.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
RESIDENT IN TRAVANCORE TRIVANDRUM. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			<p>Cross the Kulithurai river, 660', fordable, stone bridge, boats available. $\frac{3}{8}$ m. stream, 30'; brick bridge. $1\frac{1}{8}$ m. Thuckalay (2,400). $3\frac{7}{8}$ Mulagummood (270). $9\frac{1}{2}$ m. Marthandam (2,000).</p> <p><i>Camping-ground.</i>—20 acres, N. of town.</p> <p><i>Water.</i>—Unlimited; from river and 2 tanks.</p> <p><i>Fuel.</i>—Cut, plentiful supply.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Paddy only. Oxen 200; sheep 300; goats 300. Vegetables available.</p>
		4	
		41 m. 5 f.	<p>NEYATTINKARA 11. m. 2 f. Metalled road; <i>b. p. t.</i> (7,500). fit for wheeled transport. Country broken and hills covered with scrub, lower grounds cultivated. At $4\frac{7}{8}$ m. Parassalay (1,500). $9\frac{1}{2}$ m. Amuravilla (1,500). $10\frac{3}{8}$ m. cross the Neyar river, 100', brick bridged, at end of stage.</p> <p><i>Camping-ground.</i>—1 acre, N.-W. of town.</p> <p><i>Water.</i>—River and well water, for any number.</p> <p><i>Fuel.</i>—Nil, only avenue trees near.</p> <p><i>Fodder.</i>—Grass only obtainable from a distance.</p> <p><i>Supplies.</i>—Grain for 100 men for 3 days. Oxen, sheep and goats in fair numbers. Vegetables available in fair quantities.</p>
		5	
		53 m. 5 f.	<p>TRIVANDRUM.—12 m. Road fit for wheeled <i>b. p. t.</i> transport, passing over an undulating and wooded country, with several large villages by the way; ground high and irregular close to the barracks. Headquarters of the Resident in Travancore, has recently been connected up by railway with Quilon, stage 10.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		<p>At 1 m. stream, 24', brick bridge. $3\frac{3}{4}$ m. Balarampuram (2,000). $7\frac{3}{4}$ m. Nemom (2,570). $10\frac{3}{8}$ m. Karamanai river, 170', stone bridge. $11\frac{1}{4}$ m. Killiyar stream, 70', wood and iron bridge.</p> <p><i>Camping-ground</i>.—5 sq. m. N.-E. and S.-W. of town.</p> <p><i>Water</i>.—20 tanks and numerous wells; scarce in summer.</p> <p><i>Fuel</i>.—20 tons stacked.</p> <p><i>Fodder</i>.—Grass obtainable.</p> <p><i>Supplies</i>.—Grain, paddy only. Oxen, sheep and goats in fair numbers. Vegetables in large quantities.</p>
		6	<p>KALLIKUTUM.—10 m. 0 f. Gravelled road, fit for wheeled transport. At first country undulating, then flat. At 4 m. Oollur (—); stream, 10', stone bridge.</p> <p><i>Camping-ground</i>.—N.-E. of village.</p> <p><i>Water</i>.—1 tank and 100 wells, for a large number of men and animals.</p> <p><i>Fuel</i>.—From jungle near village.</p> <p><i>Fodder</i>.—Grazing 1 m. from village.</p> <p><i>Supplies</i>.—Grain, <i>nil</i>. Oxen 200; sheep 150; goats 100. Vegetables in fair quantities.</p>
		7	<p>ATTUNGAL.—10 m. 4 f. Gravelled road, fit for wheeled transport. Country undulating, thick vegetation on both sides of road. $3\frac{3}{8}$ m. Pallipuram. $5\frac{1}{4}$ m. Thonnakal. $8\frac{7}{8}$ m. cross the Mainam river, bridged iron, 85'.</p>

AUTHORITIES.

Civil.

Mili-
tary.No.
of
stage
and
total
distance.

ROUTE NO. 2.

RESIDENT IN TRAVANCORE, TRIVANDRUM.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.

8

81 m. 3 f.

Camping-ground.—S. and N.-E. of town.
Water.—From river and wells, for any numbers.
Fuel.—From jungle near by.
Fodder.—Nil.
Supplies.—Grain, only paddy available. Oxen;
 sheep, and goats plentiful. Vegetables in
 small quantities.

NAVOYKOLAM.—7 m. 2 f. Gravelled road;
 (1,240). fit for wheeled
 transport. Ground

very confined, hilly and rough. At $1\frac{1}{2}$ m.
 cross the Vamanapuram river, 220', bridged,
 stone, fordable, boats available.

Camping-ground.—Nil.

Water.—From a canal.

Fuel, Fodder and Supplies.—Nil.

9

90 m. 6 f.

MAILKAD.—9 m. 3 f. Road gravelled for
 (740). 3 m., thence
 metalled, fit for

wheeled transport. Country open and un-
 dulating. $2\frac{3}{4}$ m. Paripalli. $7\frac{3}{4}$ m. Chathanur.
 $8\frac{7}{8}$ m. Ithicara river, 210', stone bridge,
 ferry and boats available.

Camping-ground.—Large, in any direction.

Water.—Scarce; from 12 wells.

Fuel.—Obtainable from topes near by.

Fodder.—Grazing near the village.

Supplies.—Grain nil. Oxen 80; sheep 200.
 Vegetables in small quantities.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	10	<p>QUILON.—6 m. 4 f. Road fit for wheeled transport. Country undulating and wet cultivation. A large town and old Military Station. South Indian Railway (metre gauge) Station. Route No. 3 joins here. 2 m. Omayallur. 3½ m. Kolluvila.</p> <p><i>Camping-ground</i>.—200 acres, S. and W. of railway station.</p> <p><i>Water</i>.—4 tanks and 4 wells, for 300 men in hot weather.</p> <p><i>Fuel</i>.—From trees round the town.</p> <p><i>Fodder</i>.—Nil</p> <p><i>Supplies</i>.—Grain for 1,000 men and 100 animals for 1 month. Oxen 500; sheep 1,000. Vegetables in fair quantities.</p>
		97 m. 2 f.	
		11	<p>CHAVARRA.—10 m. Gravelled road, fit for wheeled transport. Ground confined, but dry up to the bar, which is crossed at 6 m. from Quilon; gardens are passed, but beyond, the road lies along the beach. 6 m. cross the Nindakarai Bar by boats, regular Ferry maintained: 4½ m. Kavanad. 9 m. Chavarra canal, 100', stone bridge, fordable.</p> <p><i>Camping-ground</i>.—200 acres, N. of village.</p> <p><i>Water</i>.—From tanks and wells, scarce in summer.</p> <p><i>Fuel</i>.—Good supply available.</p> <p><i>Fodder</i>.—Nil</p> <p><i>Supplies</i>.—Nil, except oxen 200.</p>
		107 m. 2 f.	

AUTHORITIES.

Civil.	Military.	No. of stage and total distance.
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ROUTE NO. 2.

RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	12	KARUNAGAPALLI.—7 m. Road is only a <i>p. t.</i> sandy track, unfit for any transport.
		114 m. 2 f.	Country cultivated. At 6 m. river, fordable at all times, except during monsoon, when great care has to be taken in crossing. 3. m. Panmana (188). 6 m. stream, stone bridge. <i>Camping-ground.</i> —1,000 acres, E. of village. <i>Water.</i> —From stream, 2 tanks and wells, for large numbers. <i>Fuel.</i> —Fair supply available. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Oxen 300. Vegetables limited.
		13	KAYANGULAM.—9 m. 4 f. Sandy track only <i>p. t.</i> (5,830). for 7 m., thence gravelled. Country cultivated, cross a back water just before the village. 5½ m. Ochira. 7 m. Krishnapuram and stream, 110, stone bridge. <i>Camping-ground.</i> —Extensive; all round the town. <i>Water.</i> —From streams, tanks and wells; scarce in summer. <i>Fuel.</i> —Plentiful supply obtainable. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 100 men for 14 days. Oxen 300.
		14	KARTIGAPALLI.—8 m. 4 f. Sandy road, unfit for transport, but gravelled
		132 m. 2 f.	road <i>via</i> Chettikulangara is fit for wheeled

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			transport. The whole country cultivated, road runs through paddy fields. $\frac{1}{2}$ m. stream, 55' stone bridge. 3 m. Keerikad (1,400). 5 m. Mothuklam. 6 m. Chepand (1,390). <i>Camping-ground</i> .—Only on dry paddy fields. <i>Water</i> .—From tanks and wells, for 1 regiment; scarce in summer. <i>Fuel</i> .—Plentiful. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Except 200 Oxen, <i>nil</i> .
		15	PORAKAD.—6 m. 0 f. Gravelled road, fit for (2,500). wheeled transport. Country mostly
		138m. 2f.	cocoanut gardens. Road passes through the beach N. of Allepey. Cross three <i>nalas</i> , unbridged. <i>Camping-ground</i> .—On the beach, W. of village. <i>Water</i> .—Throughout the year, from a tank and wells. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Nil.
		16	ALLEPPEY.—11 m. 4f. Track for first 2 b. p. t. miles, thence (25,700). gravelled and fit for all transport. Country sandy. $2\frac{1}{2}$ m. Ambalabuzha (1640). $3\frac{1}{2}$ m. <i>nala</i> , 20' stone bridge, fordable. $8\frac{1}{2}$ m. Kallercode (1,630). <i>Camping-ground</i> .—On beach, W. of town. <i>Water</i> .—From three tanks and five wells, for large numbers.
		149m. 6f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.	
Civil.	Military.			
BRITISH RESIDENT IN COCHIN, TRIVANDRUM.	RESIDENT, TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p><i>Fuel.</i>—A fair supply available.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 5,000 men for 2 weeks. Oxen in small numbers; sheep 200. Vegetables in small quantities</p>	
			<p>17 KUNJUTHAL.—13m. 7f. Sandy track, unfit for any transport. Country mostly cocoanut plantations. Cross 4 <i>nalas</i> in the first 5 miles, unbridged. 5½m. Kuttur (7,530). 7m. Mararikulam (2,860). <i>Camping-ground.</i>—Bad; on beach, W. of village. <i>Water.</i>—From wells and ponds, for 1,000 men and animals. <i>Fuel.</i>—From cocoanut plantations. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Grain for 2,000 men and 500 animals for 10 days. Vegetables 50 cartloads daily.</p>	
		18	<p>173m. 6f. MARAVAKAD.—10m. 1f. Sandy track, unfit for any transport. Sandy country, with cocoanut plantations. 3m. Chellanam (5,039). <i>Camping-ground.</i>—N. of village, on beach. <i>Water.</i>—Unlimited; from tanks. <i>Fuel.</i>—Abundant supply. <i>Supplies.</i>—Grain can be imported. Abundant supply of fish.</p>	

AUTHORITIES.

Civil.	Military.	No. of stage and total distance.	ROUTE NO. 2.	
BRITISH RESIDENT, COCHIN, TRIVANDRUM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		19	COCHIN.—10m. 0f. <i>b.p.t.</i> (25,860).	Track only along beach, thick cocoa-nut plantations. Town on the sea-shore, at the junction of the Kodungalur and Cochin rivers. 2m. Kembalanghi (13,300). 6m. Rakeduley (11,120). 8m. Ramashwaram (14,300).
		183m. 6f.		<i>Camping-ground</i> .—N. of town. <i>Water</i> .—From tanks and wells, for any number. <i>Fuel</i> .—20 tons stacked. <i>Supplies</i> .—Abundant.
		20	NARAKKAL.—8 m. 0f. <i>p.</i> (6,730).	Track only, cocoanut plantations. $\frac{1}{2}$ m. Cechin bar ferry. 5m. village. $7\frac{1}{2}$ m. <i>nala</i> , 60', wooden bridge.
		191m. 6f.		<i>Camping-ground</i> .—20 acres, W. of town. <i>Water</i> .—From numerous ponds, for any number. <i>Fuel</i> .—Abundant supply of cut fuel. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Imported. Sea-fish in abundance.
		21	MANNAPATH.—10m.	Track only, cocoanut plantations. 1m. <i>nala</i> 45' fordable. $3\frac{1}{2}$ m.
		201m. 6f.		Nayarambalar (6,840). 4m. <i>nala</i> , 50' wooden bridge : $5\frac{1}{2}$ m. <i>nala</i> , wooden bridge. 5m. Edavankad (6,075). 7m. <i>nala</i> , 80', wooden bridge. $8\frac{1}{2}$ m. <i>nala</i> , 50', wooden bridge. 9m. Pallipuram (10,250). <i>Camping-ground</i> .—N. of Bazar, on a sandy plain. <i>Water</i> .—From ponds and wells. <i>Supplies</i> .—Obtainable.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	22	KUTTAPARAMBA.—8 m. 6 f. Track is a sandy road, unfit for transport. Country open and cultivated. Route No. 13 joins here. Cross the Kodangalur river 5 m., boats available.
		210 m. 4 f.	
		23	PERINGANAM.—6 m. 0 f. A sandy road. Country open and covered with brush-wood. 2 m. Panangad (2,200). 4 m. Pap-pinitattom (3,850). 4 m. 1 f. pass Madilagam b. p.
		216 m. 4 f.	
		24	WALLAPAUD.—8 m. 6 f. Abandoned sandy road. Country level and fairly cultivated. 2 m. village (8,450).
		225 m. 2 f.	6 m. village (1,070). <i>Camping-ground.</i> —Near the Pagoda. <i>Water.</i> —Good; from the well. <i>Fuel.</i> —Very scarce. <i>Fodder.</i> —Grazing for 50 animals $\frac{1}{2}$ m. distant. <i>Supplies.</i> —Grain for 50 men and 25 animals for 3 days. Goats 20.
		25	CHITWAYI.—7 m. 7 f. Sandy road. Country level and fairly cultivated. Cross a backwater and the Chitwayi river, unbridged. 2 m. Talikulam (6,150). 3 m. Vatanapalli (7,450). <i>Camping-ground.</i> —Extensive; near Bungalow, upon the backwater. <i>Water.</i> —Good; from the wells.
		233 m. 1 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	26	CHOWGHAT.—6 m. 4 f. Sandy road, unfit for wheeled transport. b. p. t. (8,380). Route No. 22 joins here. Cross the Chitwayi river, unbridged, fordable and ferry.
		239 m. 5 f.	Camping-ground.—About 10 acres, near travellers bungalow.
			Water.—From tank and wells, for 300 men and 30 animals.
			Fuel.—Nil.
			Fodder.—Nil.
			Supplies.—Grain for 300 men and 50 animals for one week. Vegetables plentiful; cattle scarce and only on market days.
		27	MANALKUNAM.—6 m. 5 f. Road a sandy track. Country open, sandy, jungle in places. Backwater crossed at 3 m. 5 m. village (2,200).
		246 m. 2 f.	Camping-ground.—W. of village.
			Water.—From wells; scarce and not good.
			Fuel.—Nil.
			Fodder.—Nil.
			Supplies.—Nil, except 5 sheep.
		28	PONANI.—8 m. 4 f.—Road a sandy track. b. p. t. (14,000). Country open.
		254 m. 6 f.	Police station, Tahsildar's office. At 6 m. 4 f. river Valiangod, 440 yds., crossed in boats, which are procurable (2 each for 12 men). Route No. 2. joins here. 6 m. Kadavanad (2,100).
			Camping-ground.—5 acres, W. of town.

AUTHORITIES.

Civil.

Military.

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ROUTE NO. 2.

COLLECTOR OF MALABAR, CALCUT.

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29

259 m.
4 f.*Water.*—For 1,000 men and 20 animals.*Fuel.*—Nil.*Fodder.*—Nil.*Supplies.*—Rice for any number of men.

Goats 50.

KUTTAYI.—4m. 6 f. Abandoned. Sandy road, unfit for any transport. Country open and sandy.

3 m. Purathus (2,600). At 3 m. cross the Ponani river, 650 yds., unbridged, fordable, 25 boats (each for 6-12 men) are available. A regiment takes 12 hours to cross the river, the road near Beypore being washed away by the encroachment of the sea. Troops using this route should march from Kutwai via Klary, where there is good camping-ground, to Malappuram.

Camping-ground.—2 acres, W. of village.*Fuel.*—Nil.*Fodder.*—Nil.*Supplies.*—Nil except 25 goats.

30

268 m.
6 f.

TANUR.—9 m. 2 f.—Road unfit for any transport. Country open and sandy plain. South Indian Railway station some distance from village.

2 m. Paravanur (2,400). 6 m. Nina Maruthur (4,250).

Camping-ground.—10 acres, N. of village.*Water.*—From 7 wells, for 300 men and 150 animals.*Fuel and Fodder.*—Nil.*Supplies.*—Rice for 400 men for 1 week. Oxen 10; goats 10.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF CALCUT, MALABAR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	31	<p>CHALIAM.—12 m. 6 f. Road partly gravelled, partly, sandy unfit for motors, bad repair. Country open and cultivated. 3 m. Nedura (5,750). Cross the Pooraparamta river, 150', railway bridge, fordable, except in rains, boats available. 5 m. Parapangadi (5,750). 6 m. Ariyathur (2,570). 10 m. Kadalandi river, 700', railway bridge, boats available. 11 m. Valli Kunnoo (5,200). <i>Camping-ground</i>.—Good, but confined; $\frac{1}{2}$ m. S. of village foreshore.</p> <p><i>Water</i>.—Scarce; from 1 well, for 200 men and 10 animals only.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Available for above numbers.</p>
		281 m. 4 f.	
COLLECTOR OF CALCUT, MALABAR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	32	<p>CALICUT.—7 m. 0 f. Gravelled and unmetalled road, fair repair, fit for motors. Country open and cultivated. South Indian Railway Station. Headquarters of the Civil District. At 1 m. pass Beypore. Cross the river Beypore by the railway bridge, which is also available for cart traffic. Routes Nos. 11 and 24 join here. Also cross Kallai river, 100 yds., by bridge.</p> <p><i>Camping-ground</i>.—$2\frac{1}{2}$ m. S. of town.</p> <p><i>Water</i>.—From 1 tank and 5 wells.</p> <p><i>Supplies</i>.—Plentiful.</p>
		288 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil	Mili- tary.		
COLLECTOR OF MALABAR, CALCUT. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		33	ELLATUR KORAPAYA.—7 m. 7 f. Gravel- b. p. r. (4,100). led and metalled road, fit for motors, good repair.
		296 m. 3 f.	Country paddy fields and cocoanut gardens. At 4 m. Pudiangadi (3,800). <i>Camping-ground</i> .—2 acres, on deep sandy soil, $\frac{3}{4}$ m. N. of village. <i>Water</i> .—From wells close by. <i>Fuel</i> .—Scarce. <i>Fodder and Supplies</i> .—Nil.
		34	QUILANDY.—7 m 6 f. Gravelled road, fit for b. p. t. r. (2,650) motors. Country paddy fields and cocoanut gardens.
		304 m. 1 f.	At $\frac{1}{2}$ m. cross the Korapaya, 275 yds., unbridg- ed, 2 boats and 1 raft available. $2\frac{1}{2}$ m. Tiruvan- gore (5,450). $3\frac{1}{2}$ m. Chemancheri (3,600). $4\frac{1}{2}$ m. Edakulam (3,400). $5\frac{1}{2}$ m. Melur (3,700). $7\frac{1}{2}$ m. Pantalayini (9,150). <i>Camping-ground</i> .—13 acres, $\frac{1}{2}$ m. N. of village, on deep sand. <i>Water</i> .—Abundant; from 3 wells, for 500 men and 200 animals. <i>Fuel and Fodder</i> .—Nil. <i>Supplies</i> .—For 5,000 men and 500 animals for 4 days.
		35	TIKKOTTL.—5 m. 7 f. Gravelled road, fit for r. (2,650). wheeled transport.
		310 m. 0 f.	Country paddy fields and cocoanut gardens. 2 m. Viyyar (565). $3\frac{1}{2}$ m. Mootati (4,350). 5 m. Vanmu- kam (3,950).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	36	<p><i>Camping-ground</i>.—20 acres of private land, N.-E. of village, can be used.</p> <p><i>Water</i>.—From 4 wells and 1 tank, for 500 men and animals.</p> <p><i>Fuel and Fodder</i>.—N l.</p> <p><i>Supplies</i>.—For 1,000 men and 500 animals for 1 week, from Payyali 3 m. distant.</p>
		317 m. 7 f.	<p>BADAGARA.—7 m. 7 f. Gravelled road, fit for wheeled transport. Country at first sandy, but latterly hilly. Cross the Moorat river, unbridged, 200 y's., 2 boats and 1 raft available. 2 m. M-lati (5,000). 3 m. Avinika (2,400). 5 m. Iringal (5,000). 7 m. Pudupanom (4,550).</p> <p><i>Camping-ground</i>.—3 acres, S. of village.</p> <p><i>Water</i>.—1 tank and 5 wells, for 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—500 lbs.</p> <p><i>Fodder</i>.—N l.</p> <p><i>Supplies</i>.—Grain for 5,000 men and 500 animals for 10 days. Oxen 50; sheep 60; goats 10. Vegetables abundant.</p>
		37	<p>CHOMBAY TERAMBA.—5 m. 0 f. Road (7,850). gravelled, fit for wheeled transport. Country hilly for 4 m, thence flat. 1 m. Chorode (3,800). 1½ m. Muttangal (3,800). 3½ m. Uralankal (2,750). 4½ m. Onchiom, (3,200).</p> <p><i>Camping-ground</i>.—30 acres, N.-W. of village.</p> <p><i>Water</i>.—4 wells, for 1,000 men and 100 animals for 5 days.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF CALICUT, MALABAR.		GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p><i>Fuel.</i>—200 lbs.</p> <p><i>Fodder.</i>—Grazing for 100 animals within $\frac{1}{4}$ m.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 100 animals for 5 days. Oxen 50; sheep 30; goats 10. Vegetables abundant.</p>
			<p>38 TELlicherry.—9 m. 4 f. Road for first</p> <p><i>b. p. t. r.</i> (29,250). 4 miles sandy, not maintained, unfit for all transport,</p>
			<p>33² m. remaining 5$\frac{1}{2}$ m. in good repair, fit for all transport. Country wooded and cultivated. The above road avoids the French Settlement of Mahé, but passes for about 2 m. through French Territory. Route No. 25 joins here. 2 m. Mahé river, 90 yds. unbridged, unfordable, 12 boats available carrying 15 men each. 4$\frac{1}{2}$ m. Chokli (3,250).</p>
			<p>3 f. <i>Camping-ground.</i>—8 acres, N.-W. of town.</p> <p><i>Water.</i>—2 wells, for 500 men and 100 animals.</p> <p><i>Fuel.</i>—50 tons.</p> <p><i>Supplies.</i>—Grain for 5,000 men and 500 animals. Oxen 10; goats 20. Vegetables 300 lbs.</p>
		346 m. 3 f.	<p>39 CANNANORE.—14 m. 0 f. Gravelled road, good repair, fit for wheeled transport. Country hilly, cultivated and rocky. Routes No. 25 and 26 join here. 10 m. Keezthalli (675) and cross Chowra R., 22 yds., bridged. 11 m. Chowra (2,450).</p>
			<p><i>Camping-ground.</i>—$\frac{1}{2}$ sq. m., S.-W. of town.</p> <p><i>Water.</i>—12 wells, for 1,000 men and 500 animals.</p> <p><i>Fuel.</i>—Large quantities.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF MALAPAR, CALICUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	40	<p><i>Fodder</i>.—Grazing for 2,000 animals.</p> <p><i>Supplies</i>.—Unlimited, with one week's notice. Oxen 100; sheep 100; goats 100—all at 14 days notice. Vegetables in fair quantities.</p>
		360 m. 0 f.	<p>PULLA ANGADI. 13 m. 5 f. Gravelled road, fit for wheeled transport. Country more open. 3 m.</p> <p>Chalat (5,250). 3 m. Pallikunnum (2,100). 6½ m. Puztati (4,560). Chirakal (4,750). 27½ m. Balapatam (3,600). Cross the Balapatam River, unbridged, 460 yds., railway bridge, boats and rafts available, boat takes 25 men, raft 1 cart.</p> <p><i>Camping-ground</i>.—½ sq. m., N.-W. of village.</p> <p><i>Water</i>.—From wells, for 500 men and 100 animals.</p> <p><i>Fuel</i>.—Notice required.</p> <p><i>Fodder</i>.—Grazing for 100 animals ½ m. away.</p> <p><i>Supplies</i>.—Grain for 600 men and 100 animals for 30 days. Oxen 50; sheep 100.</p>
		41 370 m. 2 f.	<p>KAVVAYI. —10 m. 2 f. Gravelled road, fit for wheeled transport. Country hilly and rocky at first, then flat and sandy. 2 m. Cherutalam (3,500). 6 m. Kunjamangalam (4,000). 8 m. Kokkanisseri (2,300). 8 m. Perumpula river, 88', unbridged, fordable. 10 m. Payyanur (2,700).</p> <p><i>Camping-ground</i>.—Flat and sandy.</p> <p><i>Water</i>.—From wells, for 200 men and 500 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	COLLECTOR OF MALABAR, CALICUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p><i>Fuel.</i>—Notice required.</p> <p><i>Fodder.</i>—Graving for 200 animals, 2 m. distant.</p> <p><i>Supplies.</i>—Grain for 500 men and 50 animals for 30 days. Oxen 50; sheep 200. Vegetables in small quantities.</p>
			<p>42</p> <p>CHANDARE.—11 m 0 f. Road is a foot-path only, unfit for wheeled traffic. Country open and sandy. Cross the Kavai R., on the Malabar frontier, unbridged, boats available. Pass S. Trikarpur (6,000), and N. Trikarpur (3,150).</p> <p><i>Camping-ground.</i>—20 acres waste land, N. of Police Station.</p> <p><i>Water.</i>—From wells.</p> <p><i>Fuel and Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Rice for 100 men for 10 days; grain for 50 animals for 1 day. Vegetables in small quantities.</p>
COLLECTOR OF SOUTH KANARA, MANGALORE.	COLLECTOR OF MALABAR, CALICUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p>43</p> <p>NILEJHAR.—7 m. 0 f. Track only. Country open and cultivated. 2 m. Pilicode (2,300).</p> <p>3 m. Cherva' hur (7,900). 5½ m. cross river, unbridged, ferry boats.</p> <p><i>Camping-ground.</i>—Flat and sandy.</p> <p><i>Water.</i>—From wells.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing for 500 animals at 5 m.</p> <p><i>Supplies.</i>—Rice for 200 men and grain for 100 animals for 1 day. Sheep 10; goats 25.</p>
			<p>381 m. 2 f.</p> <p>388 m. 2 f.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		44	HOSDROOG.—4 m. 4 f. Unmetalled road for 3 m., the rest footpath, unfit for wheeled transport.
		392 m. 6 f.	Country open and cultivated. 3 m. Kanhangad (3 500). At $\frac{1}{4}$ m. cross the river Nileshwar, unbridged, in ferry boats.
		45	<i>Camping-ground</i> .—High and good. Though there is an inland route from Hosdroog to Mangalore, yet it is said to be unsuited for various reasons, e.g., want of convenient camping-ground and water supply and malaria prevalent during June and July. <i>Water</i> .—Supply from wells for 1,000 men. <i>Fuel</i> .—Available. <i>Fodder</i> .—Grazing for 500 animals. <i>Supplies</i> .—Rice for 500 men and grain for 200 animals for 1 day. Goats 15. Vegetables in small quantities.
		400 m. 2 f.	BEKAL.—7 m. 4 f. Metalled road, fit for all transport. Country open and cultivated. At 1 m. Balla (2,400). 2 m. Ajanur (6,000). 4 m. Chittaré (3,400). 5½ m. Kikana (1,900). 6 m. Kallikere (r.s.). Cross the Chittaré river, unbridged, 200 feet wide, at 4½ m., in 2 ferry boats and 2 boats. <i>Camping-ground</i> .—6½ acres, W. of village. <i>Water</i> .—From privately owned wells $\frac{1}{2}$ m. distant. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Grazing for 500 animals 1½ m. away. <i>Supplies</i> .—Grain and sheep nil. Oxen 5; goats 10. Vegetables in small quantities.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		46	KASARAGOD.—8 m. 2 f. Metalled road, fit for all transport. Country open and cultivated. Cross at $\frac{1}{2}$ m. the Bekal river, unbridged, 380 feet wide, and the Chandragiri river, unbridged, 2,196 feet wide, at $6\frac{1}{4}$ m. 2 ferries and 2 boats available at both crossings. 2 m. Uruma (2,250). $4\frac{1}{2}$ m. stream, 50', stone-bridged. 6 m. Kalnad (3,400). 7 m. Talangere (3,950). <i>Camping-ground</i> .—No regular ground; 7 acres E. of village can be used. <i>Water</i> .—From tanks and wells, for 10,000 men. <i>Fuel</i> .—35 tons. <i>Fodder</i> .—Grazing for 1,000 animals at 3 m. distance. <i>Supplies</i> .—Rice for 5,000 men for 20 days; grain for 1,000 animals for 5 days. Oxen 10; sheep 5; goats; 25.
		408 m. 4 f.	
		47	KUMBLA.—8 m. 1 f. Metalled, road fit for all transport. Country hilly. 1 m. Adkathai'u (2,000), 2 m. Kudlu (3,750). Stream, 40', bridged. Putturu (2,375). 5 m. Mongral (1,550), and river (820 feet wide), 2 ferries and 2 boats. <i>Camping-ground</i> .—5 acres, E. of town. <i>Water</i> .—From wells, for 100 men. <i>Fuel</i> .—In small quantities. <i>Fodder</i> .—Grazing for 500 animals. <i>Supplies</i> .—Grain only for 1,000 men and 200 animals for 1 day.
		415 m. 5 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Milit- ary.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	48	MUNJESHWAR.—9 m. 7 f. Metalled road, fit b. p. r., (2,600). for all transport.
		426 m. 4 f.	Country hilly. At 1 m. Arikadi (2,650). 2 m. Shire (1,000). 4½ m. stream, 50', stone- bridged, fordable. 7 m. Uppala (1,800). 9 m. Bangarmanjeshwar (2,100). Cross 4 unbridged rivers. Kumbala (504 feet wide) ¼ m. } Unfordable ; Shire (1,134 feet wide) 1½ m. } ferries and boats. Uphola (508 feet wide) 9¾ m. Fordable from January to May; 4 boats and ferry. <i>Camping-ground.</i> —Nil. <i>Water.</i> —From wells, for 1,000 men. <i>Fuel.</i> —14 tons. <i>Fodder.</i> —Grazing for 500 animals. <i>Supplies.</i> —Rice for 5,000 men for 20 days, and grain for 1,000 animals for 5 days. Vegetables in small quantities.
		49	MANGALORE.—11 m 4 f. Metalled road, b. p., t. r., (48,400). fit for all transport.
		438 m. f.	Country hilly. 3 m. Talpadi (1,300). 4 m. Kotekar (1,900). 8 m. Ullul (5,450). 9 m. Someshvara (2,100). Routes 19 and 42 join at this stage. Cross Rivers—Talpadi (300 feet wide) at 3¼ m., unbridged, unfordable in rains (January to May); Uchil, bridged, at 4½ m.; Ullal or Netrapati at 9½ m., unbridged, unfordable, 2 ferries.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground</i>.—35 acres S. } of Town. 31 acres N. }</p> <p><i>Water</i>.—From wells, for 15,000 men and 10,000 animals.</p> <p><i>Fuel</i>.—Large quantities.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>.</p> <p><i>Supplies</i>.—Oxen 500; sheep 300; goats 4. Vegetables for 10,000 men.</p>
		50	<p>SURATKAL.—10 m. 4 f. Metalled road, fit for all transport. Country cultivated.</p> <p>1½ m. stream, 30', stone bridge, fordable. 4 m. Derepail (1,900). 4½ m. Bangrakuturu (650). 5½ m. stream, 13', bridged. 6 m. Panamhuru (3,400). 7 m. Baikampadi (2,000). 8 m. Kulai (400). 9 m. Hosbettu (1,350). 10 m. Tddya (1,800). Cross the Gurpur river, unbridged, at Padukodi, 666', fordable, 6 boats and a ferry carrying 130 men or 260 maunds available.</p>
		448 m. 4 f.	
		51	<p>MULKI.—7 m. 4 f. Metalled road, fit for all transport. Country partly open and partly hilly, cultivated. 4 m. Pavanji (1,300). 4½ m. stream, 25', bridged, fordable. 5 m. Habyangadi (1,400). 6 m. Panambur (750). Belairu (850). 7 m. Chihapu (950). 8 m. Karnad (1,100). At 2½ m. cross the Parenjeh river, unbridged, 333', fordable; 6 boats and 1 ferry, carrying 8 men or 160 maunds, available.</p> <p><i>Camping-ground</i>.—8½ acres, E. of town.</p> <p><i>Water</i>.—Tank and wells, for 10,000 men and 10,000 animals.</p>
		456 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing for 200 animals at 2 m.</p> <p><i>Supplies.</i>—Grain for 1,000 men and animals for 1 month. Oxen 300; goats 20. Vegetables for 100 men.</p>
		52	<p>KAP.—11 m. 0 f. Metalled road, fit for all b., (2,200). transport. Country partly open and hilly. 4. m.</p>
		467 m. 0 f.	
			<p>Padubidur (4,700). 6½ m. Vermal (5,500). 4½ m. stream, 77', stone bridge. Cross the Mulki river, unbridged, 1,100', unfordable; 6 boats and 1 ferry, carrying 80 men or 160 maunds, available.</p> <p><i>Camping-ground.</i>—18·77 acres, N.-E. of village.</p> <p><i>Water.</i>—From tanks and wells, for 400 men and animals.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing for 400 animals at ½ m.</p> <p><i>Supplies.</i>—Grain for 400 men and animals for 1 month. Goats 100. Vegetables on Fridays in small quantities.</p>
		53	<p>UDIPL.—8 m. 0 f. Metalled road, fit for all p. t. (7,550). transport. Country flat and cultivated with</p>
		475 m. 0 f.	
			<p>paddy. At 1 m. village (2,300). 1½ m. nala, 16', bridged, fordable. 2½ m. Pangal (1,300), 3½ m. Mudahettu (1,450). 3¾ m. nāla, 12', bridged. 5 m. Yenaguddi (1,400). 6 m. Udiavar (5,000). 7 m. Badagahettu (3,500). At 1½ m. cross the Pangal river, which is fordable at low water.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE			At 6 m. cross the Udiarar river, which is unfordable, but boats are available. Both rivers unbridged. <i>Camping-ground.</i> —N. of town, 88 acres. <i>Water.</i> —For 1,000 men and animals. <i>Fuel.</i> —Small quantities obtainable. <i>Fodder.</i> —Grazing for 1,500 animals at 1 m. <i>Supplies.</i> —Grain for 1,000 men and animals for 1 month. Goats 100. Vegetables for 100 men; more with notice.
		54	BRAHMAVAR.—7 m. 4 f. Metalled road, fit for all transport.
		482 m. 4 f.	For most of the way, from Udupi, it is shaded by an avenue of fine trees. Country hilly and barren. $\frac{1}{2}$ m. stream, 22', bridged. 1 m. Puttur (4,400). 4 m. Kallianpur (4,050). $4\frac{3}{4}$ m. cross the Swarnaradi river, $\frac{3}{4}$ m. broad, by boats (7) and ferry: unbridged and unfordable. 5 m. Baikadi (1,200). 6 m. Herur (1,200). 7 m. Varamhalli (1,850). $7\frac{1}{4}$ m. Handare (1,300). Route No. 44 joins at this stage. <i>Camping-ground.</i> —29 acres, S.-E. of village, for 1 regiment. <i>Water.</i> —From wells; sufficient for men and animals of 1 regiment. <i>Fuel.</i> —50 cart loads. <i>Fodder.</i> —Grazing round camping-ground for 1,000 animals. <i>Supplies.</i> —Grain for 1,000 men and animals for 14 days. Vegetables in small quantities.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	55	KOTATATTU.—8 m. 0 f. Metalled road, fit for all transport. Country cultivated for first few miles, then sandy and open. At 2 m. cross the Sitanadi river, 2,000', unbridged, unfordable, 1 large ferry, a boat and 7 double canoes procurable. $\frac{1}{2}$ m. Handadi (1,300). Varamhalli (1,850). $1\frac{1}{2}$ m. Kumragodu (1,000) —there is a tile factory here. $2\frac{1}{2}$ m. Balkudra (2,300). 3 m. Pandeswar (950). $3\frac{1}{2}$ m. Airodi (1,500). 4 m. Gundmi (1,500). 5 m. Kar-kanda (1,150). 6 m. Parampalli (1,350). 8 m. Chitrapadi (900).
		490 m. 4 f.	<p><i>Camping-ground.</i>—$8\frac{1}{2}$ acres, S. of village.</p> <p><i>Water.</i>—From wells; sufficient for men and animals of 1 regiment.</p> <p><i>Fuel.</i>—50 cart loads.</p> <p><i>Fodder.</i>—Grazing for 1,000 animals within 3 m.</p> <p><i>Supplies.</i>—Grain for 1,000 men and animals for 14 days. Vegetables in small quantities.</p>
		56	COONDAPOOR.—7 m. 5 f.—Metalled road, fit for all transport. Country covered with low jungle, with occasional patches of cultivation. 2 m. Tekkati (1,300). 3 m. Khumhasi (1,350). $3\frac{1}{2}$ m. Gopadi (500). $3\frac{1}{2}$ m. Bijadi (1,550). $4\frac{1}{2}$ m. Koteswar (2,300). $6\frac{1}{2}$ m. Hangluru (1,150). $7\frac{1}{2}$ m. Vaderahob (1,900).
		498 m. 1 f.	<p><i>Camping-ground.</i>—30 acres, S. of village.</p>

ROUTE NO. 2.

AUTHORITIES.

Civil.

Mili-
tary.No.
of
stage
and
total
distance.

COLLECTOR OF SOUTH KANARA, MANGALORE.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

57

507 m. 5 f.

Water.—From 2 tanks and 12 wells, for 1,000 men and animals.

Fuel.—Cut, stacked here.

Fodder.—Nil.

Supplies.—Grain for 1,000 men and animals for 10 days. Oxen 25; goats 25. Vegetables in fair quantities.

KIRIMANJESHVAR.—9 m. 4 f. Gravelled road, fit for wheeled transport. Country

open and partly cultivated. $\frac{1}{2}$ m. cross Chakranadi River (1 m. broad), cable ferry and 8 boats carrying 20 men each. 1 m. Gangolli (5,050). $4\frac{1}{2}$ m. Trashi (1,200). 6 m. Marvante (1,700). 7 m. Navunda (1,550).

Camping ground.—14 acres, N. of village.

Water.—1 tank and 1 well, for any number.

The well requires cleaning.

Fuel.—Obtainable.

Fodder.—Grazing for 100 animals $\frac{1}{2}$ m. from camping-ground.

Supplies.—Nil.

58

514 m. 2 f.

BAINDUR.—6 m. 5 f. Gravelled road, fit for wheeled transport;

difficult to take motors across ferries. Country open and partly cultivated, but generally covered with low jungle.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2.
Civil.	Military.		
COLLECTOR OF NORTH KANARA, KARWAR.	COLLECTOR OF SOUTH KANARA, MANGALORE.		
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			
		59	<p>1 m. Khambada Kone (1,400). 1½ m. Yedamavina-hole river, 300', unbridged, fordable at low tide; ferry and 2 boats carrying 20 men each. 3 m. Kergal (1,500). 3½ m. Nandaravana (400). 4½ m. Upunda (2,700). 4½ m. Bijoor (2,200). 5½ m. cross Hangarhole River, 300', unbridged, fordable at low tide; ferry and 2 boats carrying 10 men each. 6½ m. stream, bridged.</p> <p><i>Camping ground.</i>—5 acres, N. of village.</p> <p><i>Water.</i>—2 tanks and 2 wells, for any number. 1 well requires cleaning.</p> <p><i>Fuel.</i>—21 tons.</p> <p><i>Fodder.</i>—Grazing for 200 animals all round camping-ground.</p> <p><i>Supplies.</i>—Rice for 1,000 men and grain for 50 animals for 3 days.</p>
		526m. 2f.	<p>BHATKAL —12 m. 0 f. Gravelled road, fit for <i>b.p.i.</i> (7,140). motors. Country generally covered with low jungle, cultivated in parts. The Road passes over a very steep hill about ¼ m. in length beyond Bhatkal, and there is another ascent about same length near Venkatpur ferry. Gradient 1 in. 16. ½ m. Yedtare, (3,850). 4 m. Shiruru. 9 m. Belke (1,100). All streams bridged. At Venkatapur ferry, there are 1 boat and 1 jangar kept by Government, also 2 ferry boats capable of carrying 15 persons; in case of emergency, 30 to 35 private boats capable of carrying 15 persons each can be hired at Teningundi and Alwekodi.</p>

ROUTE NO. 2.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF NORTH KANARA, KARWAR.			
GENERAL OFFICER COM. MANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground.</i>—N. of town, 2200 yds. \times 880 yds; also, about 1 m. from District Bungalow, there are 108 acres available.</p> <p><i>Water.</i>—From wells and tanks in the vicinity, for 7,000 men and 1,500 animals.</p> <p><i>Fuel.</i>—Cut, stacked.</p> <p><i>Fodder.</i>—Grazing. 80 acres within 1 m. for 1,400 animals.</p> <p><i>Supplies.</i>—Rice for 7,500 men for 2 days. Kulthi and grain for 1,500 animals for 4 days. Vegetables scarce. Live stock <i>nil</i>.</p>

ROUTE No. 2 (1).

FROM KOTAR TO ALAGIAPANDAPURAM.

Road metalled and bridged, practicable at all seasons.
Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (1).
Civil.	Military.		
THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KOTAR.— <i>b.p.t.</i>
		1 8 m. 2 f.	ALAGIAPANDAPURAM.—8 m. 2 f.

ROUTE No. 2 (2).

FROM KOTAR TO RAJAKAMANGALAM.

Road metalled and bridged, practicable at all seasons.
Direction.—South-West.

THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C., MADRAS DISTRICT, WELLINGTON.		KOTAR.— <i>b.p.t.</i>
		1 6 m. 0 f.	RAJAKAMANGALAM.—6 m. 0 f.

ROUTE No. 2 (3).

FROM KOTAR TO ARAMBALY.

Road metalled and bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (3).
Civil.	Mili- tary.		
RESIDENT IN TRAVAN- CORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KOTAR.— <i>b.p.t.</i>
		1	ARAMBALY.—8 m. 1 f. <i>Vide</i> Route No. 1, <i>p.</i> stage No. 1. Cross Palayar river, bridg- ed.
		8 m. 1 f.	

ROUTE No. 2 (4).

FROM 5 MILES BEYOND KOTAR TO KOLACHEL.

Road metalled and bridged, practicable at all seasons.

Direction.—West by South.

RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	5 MILES BEYOND KOTAR.
		1	KOLACHEL.—8 m. 6 f.
		8 m 6 f.	

ROUTE No. 2 (5).

FROM KOLACHEL TO SHORLAKOD.

Road metalled and bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (5).
Civil.	Military.		
THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KOLACHEL.
		1	UDAGIRI.—7 m. 7 f.
		7 m. 7 f.	b.
		2	SHORLAKOD.—18 m. 0 f.
		18 m. 7 f.	

ROUTE No. 2 (6).

FROM TAINGAPATNAM TO PACHIPARA.

Road metalled and bridged, practicable at all seasons.

Direction.—North-East.

THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TAINGAPATNAM.—On the Coast.
		1	THODUVETTI (NEAR 7 m. 7 f.
		7 m. 7 f.	KOLITURAI).
		2	PACHIPARA. 14 m. 0 f.
		21 m. 7 f.	(KOTTIYAR DAM HEAD WORKS).

ROUTE No. 2 (7).

FROM PAURASHALAY TO KOLLENKOD.

Road gravelled and bridged, practicable at all seasons.

Direction.—South-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (7).
Civil.	Military.		
THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PAURASHALAY.
		1	KOLLENKOD.—5 m. 0 f.—On the Coast.
		5 m. 0 f.	

ROUTE No. 2 (8).

FROM POWAR TO VALRAMPUR.

Road gravelled and bridged, practicable at all seasons.

Direction.—North.

THE RESIDENT IN TRAVAN- CORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	POWAR.
		1	VALRAMPUR.—8 m. 2 f.
		8 m. 2 f.	

ROUTE No. 2 (9).

FROM WALLIATURAY to COTOOR.

Length.—20 m.

2 stages.

Road unmetalled and bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (9).
Civil.	Military.		
THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	WALLIATURAY.—On the Coast.
		1	TRIVANDRUM.—2 m. 2 f.
		2 m. 2 f.	<i>b.p.t.</i>
		2	COTOOR.—17 m. 6 f.
		20 m. 0 f.	

ROUTE No. 2 (10).

FROM SHANGAMUGAM TO THAINMALLAI.

Length—48 m. 6 f.

6 stages.

Cross the Paripar river, bridged.

Direction.—East-North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (10).
Civil.	Military.		
THE RESIDENT IN TRAVANCORE, TRIVANDRUM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..		SHANGAMUGAM.—On the Coast.
	1		TRIVANDRUM.—2 m. 6 f. <i>b.p.t.</i>
	2 m. 6 f. 2		NEDDUVENKAD.—12 m. 0 f. On the Coast.
	14 m. 6 f. 3		PALLOD.—10 m. 0 f. On the Coast.
	24 m. 6 f. 4		MADATHORAY.—10 m. 4 f. On the Coast.
	35 m. 2 f. 5		KOLATURPULAY.—7 m. 4 f. On the Coast.
	42 m. 6 f. 6		THAINMALLAI.—6 m. 0 f. On the Coast.
	48 m. 6 f.		

ROUTE No. 2 (11).

FROM ANNAD TO VIDDIRAYALUR.

Road gravelled and bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (11).
Civil.	Military.		
THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	ANNAD (NEAR NEDDUVANKAD).
		1	VIDDIRAYALUR.—6 m. 6f.
		6 m.	
		6f.	

ROUTE No. 2 (12).

FROM TRIVANDRUM TO KOTARAKARAI *by* VEMBOYACONAM.

Length.—46 m. 4 f.

5 stages.

Road metalled and entirely bridged, so that it is practicable at all seasons.

Direction.—North.

THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	TRIVANDRUM.— <i>Vide</i> Route No. 2, stage b. p. t. No. 5.
		1	VEMBOYACONAM.—12 m. 0f. Camping-ground, with water, near the 12th m.
		12 m. 0f.	
		2	BAVANAPURAM.—8 m. 0f. Camping-ground, with water, near the 20th m.
		20 m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (12).
Civil.	Military.		
THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	3	
		29 m. 0 f.	
		4	
		35 m. 0 f.	
		5	
		46 m. 4 f.	
NELLAMAIL.—9 m. 0 f. Camping-ground available; water from a stream and wells; supplies from Kadyhol, 4 m. east; a road leads from here and joins Route No. 2 at Navoykolam. Cross the Bavanapuram and Killimanur rivers, bridged.			
AYUR.—6 m. 0 f. Camping-ground, and river water. Supplies from Anjel market, 4 m. distant.			
KOTARAKARAI.—11 m. 4 f. Vide Route No. 3, b. r. stage No. 11. Cross the Ayur or Ithicaar river, bridged.			

ROUTE No. 2 (13).

FROM ALLEPPEY TO COCHIN.

This is the route now adopted, and is better than Route No. 2, stages 16 to 19, but cannot be said to be convenient, as the road is not fit for carts.

Direction.—North.

THE RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	ALLEPPEY.— b. p. t.
		1	SHERTALLAY—13 m. 0 f. By land.
		2	p. AROOR MUKKAM II.—14 m. 0 f.
		3	CHENGANDAL—18 m. 0 f. By backwater.
		4	AROOR MUKKAM.—14 m. 0 f.
		5	COCHIN.— b. p. t.

ROUTE No. 2 (14).

FROM CHOWGHAT TO VENNAMAKIL.

A good road ; from Yennamakil to Trichur by boats.

Direction.—South-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (14).
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	CHOWGHAT.— <i>b. p. t.</i>
		1	YENNAMAKIL.—8 m. 5 f.—
		8 m. 5 f.	

ROUTE No. 2 (15).

FROM PERONI TO NILAMBUR.

Length.—48 m. 2 f.

5 stages.

The road is metalled and bridged (with the exception of the Nuradi river), practicable at all seasons.

Direction.—East-North-East.

COLLECTOR OF MALABAR, CALICUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PERONI.—On the Coast.
		1	BETULPUDI ANGADI.—3 m. 2 f. Troops moving by this branch road should
		3 m. 2 f.	use "Clari" (distant 13 m.) as a halting stage, where there is a good camping-ground with a good supply of water from wells.
		2	TIRUR RAILWAY.—5 m. 0 f.
		8 m. 2 f.	STATION. <i>p., t. r.</i>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (15).
Civil	Military.		
COLLECTOR OF MALABAR, CALICUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.	3	MALAPPURAM.—17 m. 0 f. Cross the Nuradi river, bridged. <i>b. p. t.</i>
		25 m. 2 f.	
		4	MANJERI.—7 m. 0 f. <i>b. p. t.</i> (<i>vid</i> EDAYANA.)
		32 m. 2 f.	
		5	NILAMBUR.—16 m. 0 f. A good-sized village. <i>b. p. t.</i>
		48 m. 2 f.	

ROUTE No. 2 (16).

FROM BADAGARA TO KUTIPURAM.

Good road, practicable at all seasons.
Direction.—North-East.

COLLECTOR OF MALABAR, CALICUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	BADAGARA.— <i>b. p. r.</i>
		1	KUTIPURAM.—9 m. 0 f.—
		9 m. 0 f.	

ROUTE No. 2 (17).

FROM TELLICHERRY TO CHAWACHAIRY.

Road well gravelled, practicable at all seasons.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (17).
Civil.	Military.		
COLLECTOR OF MALABAR, MALABAR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		..	TELLICHERRY.— <i>Vide</i> Route No. 2, stage <i>b. p. t. r.</i> No. 38.
		1	KATHRUR.— <i>Vide</i> Route No. 2; Stage No. 38.
		2	KUTTAPARAMBA.—8 m. 4 f.— <i>Vide</i> Route No. 2, Stage No. 38. <i>b. p.</i>
		3	MUTANUR.— <i>Vide</i> Route No. 2, Stage No. 38.
		4	CHAWACHAIRY.—12 m. 5 f. Cross the Merupoya river, unbridged.

ROUTE No. 2 (18).
FROM CANNANORE TO MOODBIDRI.

Length.—127 m. 6f.

11 stages.

Epitome.—From Kuttur to Pullur, there is only a track (now abandoned) across the frontiers of the Malabar and South Kanara Districts. From Pullur to Panimangalore, the road is opened out, but the bridges over the big streams are all broken. The Bevinja river is unbridged. This road is unsuitable at present for various reasons, *e.g.*, want of convenient camping-grounds, want of large boats at several unbridged streams and want of water from January till the setting in of the monsoon. The coast road, No. 2, *viâ* Kawai and Mangalore, is certainly the better road now.

Direction.—North-North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (18).
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	CANNANORE.— <i>Vide</i> Route No. 2, stage No. <i>b. p. t. r.</i> 39.
		1	TALIPARAMBA.—14 m. 0 f. This distance is <i>viâ</i> Chalotte and Beliapatam, and not by the coast road, Route No. 2. Beliapatam is 6 miles distant from Cannanore by Chalotte, but the road is good and practicable for carts at all seasons.
		14 m. 0 f.	
		2	KUTTUR.—15 m. 5 f. Cross the Taliparamba river. The river is always provided with a ferry boat.
		29 m. 5 f.	
		3	PULIANUR.—13 m. 4 f. A Local Fund Public Works shed here..
		43 m. 1 f.	
		4	KAKKAT.—13 m. 2 f. The route from Pulianur to Kakkat and Pullur has been abandoned. There is no Public Works shed
		56 m. 3 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (18).
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		at Kakkat now, but there is one at Pullur. The road can be joined at Pullur from Hosdrug (Route No. 2, stage No. 44) $4\frac{1}{2}$ m. distant from Pullur.
		5	PULLUR.—6 m. 2 f.
		62 m. 5 f. 6	BEVINJA.—12 m. 5 f. An old Local Fund Public Works shed here. Cross the Bevinja river, unbridged.
		75 m. 2 f. 7	KARAMBILA.—10 m. 0 f. A Local Fund Public Works shed here. Approaches steep. Cross the Karambila stream, unbridged—a dangerous stream in monsoon
		85 m. 2 f. 8	ADKASTALA.—8 m. 2 f. A Local Fund Public Works shed here. Cross the Palathadka stream, unbridged.
		93 m. 4 f. 9	VITTAL.—8 m. 5 f. A Local Fund Public Works shed here. Cross the Adkastala stream, unbridged.
		102 m. 1 f. 10	PANIMANGALORE.—9 m. 2 f. Cross the Vokketur stream, unbridged.
		111 m. 3 f. 11	MOODBIDRI.—16 m. 3 f. Road gravelled and bridged, except over the Puchimagar river, the bridge over which has collapsed; the river is very wide and is crossed with great difficulty by boats. The distance is calculated from Bantval (Route No. 41, stage No. 2), opposite Panimangalore.
		127 m. 6 f.	

ROUTE No. 2 (19).

FROM KUNJAMANGALAM TO KUTLUR.

Cross the Vamrathikadavu river, unbridged ; a fair-weather track;
practicable in the dry season only.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (19).
Civil.	Mili- tary.		
COLLECTOR OF MALABAR, CALICUT.	MADRAS DISTRICT, WELLINGTON.	..	KUNJAMANGALAM.
	G. O. C.,	1	KUTLUR.—8 m. 0 f.
	G. O. C.,	8 m. 0 f.	

ROUTE No. 2 (20).

FROM HOSDROOG TO PULLUR.

A mere track.

Direction.—North-East.

COLLECTOR OF SOUTH KANARA, MANGALORE.	MADRAS DISTRICT, WELLINGTON	..	HOSDROOG. <i>b.p. r.</i>
	G. O. C.,	1	PULLUR.—4 m. 5 f.
	G. O. C.,	4 m. 5 f.	

ROUTE No. 2 (21).

FROM KASARAGOD TO SAKLASPUR.

Length.—104 m. 5 f.

10 stages.

Epitome.—This road is gravelled and bridged up to near Jalsur, thence it is a mere track to Subramanya and is unbridged, practicable in the dry season only. The road in the Hassan District is gravelled and bridged and passes through undulating country.

Direction.—North-East by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (21).
Civil.	Military		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	KASARAGOD. <i>b. p. r.</i>
		1	MULLIAR.—10 m. 0 f. Cross the Chandragiri river, bridged.
		10 m. f. 2	UDDUR.—8 m. 3 f.
		18 m. 3 f. 3	JALSUR.—12 m. 5 f.—
		31 m. 0 f. 4	GUTTIGAR.—17 m. 4. f.
		48 m. 4 f. 5	SUBRAHMANYA.—8 m. 4 f. A place of great sanctity, and a large cattle market.
		57 m. 0 f.	Cross the Kallija and Kannadi rivers, unbridged.

AUTHORITIES.

Civil. Military.

No.
of
stage
and
total
distance.

ROUTE NO. 2 (21).

DEPUTY COMMISSIONER OF HASSAN, HASSAN.

GENERAL OFFICER COMMANDING, BANGALORE.

6	62 m. 0 f.
7	72 m. f.
8	82 m. f.
9	93 m. f.
10	104 m. 5 f.

BHUDICHAVIDI 5 m. 0 f. Extensive camping-ground. Supplies must be procured from Subrahmanya.

(WITHIN $\frac{1}{2}$ M. OF THE MYSORE BOUNDARY.)

BASIE—10 m. 0 f. Open maidan for a camp between the bungalow and rest-house.

b.

Water from a pond and streamlet; supplies very scanty. The hill road passes through thick forest.

BIAGADIHALLI.—10 m. 0 f. Good camping-ground on both sides of the police station. Supplies scanty. Water from streamlets.

SUKRAVARASANTE.—11 m. 0 f.

b.

SAKLASPUR.—11 m. 5 f.

b. p. t. r.

ROUTE No. 2 (22).

FROM PERDAL TO KUMBLA.

Cross the Perdal and numerous other rivers, unbridged. Road unmetalled and unbridged, practicable in the dry season only.

Direction—West.

COLLECTOR OF SOUTH KANAKA, MANGALORE.

G. O. C. MADRAS DISTRICT, WELLINGTON.

..

PERDAL.

p.

1

KUMBLA.—11 m. 2 f.

b., p. r.

11 m. 2 f.

ROUTE No. 2 (23).

FROM MUNJESHWAR TO BELTANGADY.

Epitome.—Up to Puttur, there is a mere track ; thence to Uppinangadi, the road is good and bridged, with one exception ; the remainder of the road is gravelled and practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (23).
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON	..	MUNJESHWAR. <i>b. p. r.</i>
		1	ANEHAL.—10 m. 5 f. <i>p.</i>
		2	VITTAL.—10 m. 3 f. Cross two rivers, unbridged. <i>p.</i>
		3	PUTTUR.—8 m. 7 f. <i>b. p. t.</i>
		4	UPPINANGADI.— Cross the junction of the <i>p.</i> Netravati and Khumardari rivers, unbridged, at Uppinangadi ; boats available.
		5	BELTANGADY.—14 m. 3 f. Cross one river ; <i>p.</i> unbridged ; road bridged, except small brushwood culverts, and unmetalled.

ROUTE No. 2 (24).

FROM MANGALORE TO KINNIGOLY.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (24).
Civil.	Mili- tary.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	MANGALORE. <i>b. p., t. r.</i>
		1	BAJAPL.—11 m. 0 f.
		11 m. 0 f.	
		2	KINNIGOLY—8 m. 0 f.
		19 m. f.	

ROUTE No. 2 (25).

FROM PADUBIDRI TO KURKUL.

Length.—19 miles.

2 stages.

Mostly gravelled, bridged throughout; practicable at all seasons.

Direction.—East-South-East.

COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PADUBIDRI.— <i>p.</i>
		1	BELMON.—8 m. 0 f.
		8 m. 0 f.	
		2	KARKUL.—11 m. 0 f. <i>b. p.</i>
		19 m. 0 f.	

ROUTE No. 2 (26).
FROM BELMON TO KATPADI.
Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (26).
Civil	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C., BANGALORE.	..	BELMON.
		1	SHIRVA.—6 m. p.
		6 m. 0 f. 2	KATPADI.—7 m. 5 f.
		13 m. 5 f.	

ROUTE No. 2 (27).
FROM MALPE TO SOMESVAR.

Length.—29 m. 6 f. 4 stages.

Road gravelled, partly bridged and practicable only in the dry season.

Direction.—East-North-East.

COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	MALPE.—p. t.
		1	UDIPL.—3 m. 0 f. Cross the Malpe river, un- p. t. bridged.
		3 m. f. 2	HIRIADKA.—8 m. 3 f. p.
		11 m. 3 f. 3	HEBEL.—12 m. 1 f.—Cross the Baje and p. Shivapur rivers, un- bridged.
		23 m. 4 0 f 4	SOMESVAR.—6 m. 2 f. b. p.
		29 m. 6 f.	

ROUTE NO. 2 (28).

FROM KOLESHVAR TO AMASHEBAIL.

Cross the Trallikeray river, unbridged; road mostly gravelled, passable at all seasons, except during heavy floods.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 2 (28).
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KOLESHVAR.
		1	HALADI.—11 m. 3 f.
		11 m. 3 f.	
		2	AMASHEBAIL.—12 m. 0 f.
		23 m. 3 f.	

No. 2 (29).

FROM BAINBUR TO HALKAL.

Cross the Wasray, Ellur and Halkal rivers and some small streams, unbridged; road gravelled, but unbridged; a fair-weather road only.

Direction.—East-South-East.

COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	BAINBUR.— b. p.
		1	GOLIHOLE.—8 m. 4 f.
		8 m. 4 f.	
		2	HALKAL.—6 m. 0 f.
		14 m. 4 f.	

ROUTE NO. 3.

FROM TUTICORIN TO QUILON.

Distance.—131 m. 4 f.

13 stages.

Authority and date.—General Officer Commanding 9th Division, January 1919.

Epitome.—General direction west. This is the most direct route to Quilon and is practicable at all seasons. It is metalled, with the exception of the Tambraparni river, is bridged throughout. Freshets do not last long but subside sufficiently in a day or two to allow of the river being forded. The country from Palamcottah to Shencottah is flat and richly cultivated, thence to Punalur it is hilly and covered with dense jungle. Beyond Punalur the country becomes undulating rather than hilly, and is richly cultivated. The Arienkavu Ghat road is well made, the gradient of ascent being 1 in 20 and of descent 1 in 25. Fever prevails about the pass from February to June, during which months his route should be avoided.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		TUTICORIN.— <i>Vide main Route No.V. initial stage.</i> <i>t. r. p.</i>
		..	
		1	VAGAIKULAM.—11 m. 4 f. Gravelled road, (3,783). in good repair, fit for motors. Country
		11 m. 4 f.	6 open and cultivated 7½ m. stream 220 yds, bridged. 8½ m. Tudhukottai (2,886). <i>Camping-ground.</i> —S. of village 110 yds. × 44 yds. and 1,100 yds. × 440 yds. <i>Water.</i> —From 3 wells for 100 men and 100 animals at all seasons. <i>Fuel.</i> —Obtainable.

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 3.

COLLECTOR OF TINNEVELLY, PALAMCOTTAH.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

2

23 m.
0 f.

Fodder.—2,000 acres grazing for 1,000 animals E. of village.

Supplies.—Grain for 100 men and animals for 3 months. Oxen 800; sheep 1,970; goats 380. Vegetables procurable daily.

VALLANAD.—11 m. 4 f. Gravelled road fit for motors. Country jungly in places, p. (3,831).

otherwise open and cultivated. 5 m. Ellanagu Kanpathi (1,407).

Camping-ground.—W. of village 550 yds. × 220 yds. and space near 990 yds. × 396 yds.

Water.—Unlimited from the Tambraparni rivet.

Fuel.—Obtainable.

Fodder.—Grazing for 1,000 animals 1½ m. from village.

Supplies.—Grain for 250 men and 150 animals for 4 months. Oxen 40, sheep 1,000; goats 200. Vegetables small quantities daily in December and January.

3

32 m.
2 f.

PALAMCOTTAH.—9 m. 2 f. Gravelled road fit for motors. Country open and cultivated, jungly in plain. At 1½ m. cross the Tambraparni river, unbridged. Freshets do not last long, but subside sufficiently in a day or two to allow of the river being forded.

See Route No. 1, stage 5.

4

42 m.
6 f.

SITHAPURPANELLUR.—10 m. 4 f. Metalled road, fit for motors. Country open and cultivated, jungly in places.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>A native rest-house and police station here. At 7$\frac{1}{2}$ m. pass through Tinnevelly (44,800). Cross the Tambraparni river, bridged, 100 yds. at 1 m.</p> <p><i>Camping-ground</i>.—E. of village, dry cultivation and 440 yds. \times 176 yds. near.</p> <p><i>Water</i>.—For 200 men and 100 animals from well.</p> <p><i>Fuel</i>.—Obtainable in large quantities with 14 days' notice.</p> <p><i>Fodder</i>.—Grazing for 200 animals and 4,000 acres $\frac{1}{2}$ m. from village.</p> <p><i>Supplies</i>.—Grain in large quantities for men and animals at 14 days' notice. Oxen 300; sheep 200; goats 200.</p>
		5	<p>ALANGOLAM.—9 m. Metalled road, fit for b. all transport. Country open and cultivated, some jungle. A native rest-house and police station here.</p> <p><i>Camping-ground</i>.—S. of village 1 acre.</p> <p><i>Water</i>.—2 wells for a large number of men and animals.</p> <p><i>Fuel</i>.—2 cartloads.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 200 men and 100 animals for 2 days. Oxen 500; sheep 50; goats 30. Vegetables for 200 men from June to August.</p>
		6	<p>TENKASI.—15 m. Metalled road, fit for all p.t.r. (21,855). transport. Country open and cultivated, some jungle.</p>
		6 $\frac{1}{2}$ m. 6 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3.
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM. COLLECTOR OF TINNEVELLY, PALAMCOTTAH.		GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p>A police station and court house here.</p> <p>Route No. 4 joins. 3 m. Andipatti (1,100). 7 m. Killapavur (6,100). 8 m. Avudayamur (3,700). 9 m. Tippanempatti (3,650), 12 m. Sivanandanur (1,950). 13 m. Gunaramarallur (2,450). 13 m. Azhathakannir river 40', bridged, fordable except in rains. 13½ m. cross the Chittar river, bridged, 100 yds., fordable except in rains. 14 m. Puliya channel 125' bridged.</p> <p><i>Camping-ground.</i>—10 acres.</p> <p><i>Water.</i>—From river, channels, 2 tanks and 3 wells for 1,000 men and 500 animals.</p> <p><i>Fuel.</i>—10 tons daily.</p> <p><i>Fodder.</i>—Grazing in Forest Reserve 4 m. distant.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 500 animals for 1 week. Oxen 100; sheep 100; goats 100. Vegetables on market day—Wednesday.</p>
7			<p>PULIARAI.—9 m. Metalled road, fit for all b. (614'). transport. country open and cultivated; jungly in parts. 4½ m. Shencottah (10,300). 9 m. Puliyaarai (615').</p> <p><i>Camping-ground.</i>—200 acres W. of village.</p> <p><i>Water.</i>—Abundant.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—500 acres of grazing 1½ m. from village.</p> <p><i>Supplies.</i>—Grain from Shencottah, also vegetables. Oxen 500; sheep 300; goats 500.</p>
8			<p>ARIENKAVU.—4 m. 6 f. Metalled road, fit for all transport. From b. (170). near Puliari the road rises at 1 in 20 to the head of the pass (1,200'</p>
80 m. 4 f.			

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3.
Civil.	Mili- tary.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	9	<p>above sea level) and falls again at 1 in 25 to Arienkavu, across the pass of the latter name. Country forest.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—From stream, dry in hot weather.</p> <p><i>Fuel.</i>—Plentiful from forest.</p> <p><i>Grazing.</i>—Plentiful from forest.</p> <p><i>Supplies.</i>—Nil.</p>
		91 m. 2 f.	<p>UTHAKAL.—10 m. 6 f. Metalled road; fit for all transport. Country jungle and thick forest.</p> <p>1½ m. Muriyapangan river, 65', stone bridge and fordable. 5 m. Anachady River 45' stone bridge fordable. 8 m. Thanimallai.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—From river for large numbers of men and animals.</p> <p><i>Fuel and Grazing.</i>—Plentiful in forest.</p> <p><i>Supplies.</i>—Nil.</p>
		102 m. 2 f.	<p>PONALUR.—11 m. 0 f. Metalled road, fit for all transport. Country mostly jungle. 4½ m.</p> <p>Edamon (1100). 11 m. Kallada river, 400'; stone bridge.</p> <p><i>Camping-ground.</i>—100 acres N. of town.</p> <p><i>Water.</i>—Plentiful from river.</p> <p><i>Fuel.</i>—500 tons stacked.</p> <p><i>Fodder.</i>—Grazing for a large number of animals 1 m. from town.</p> <p><i>Supplies.</i>—Grain for 100 men for 14 days. Oxen 200; sheep 100.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3.
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		11	KOTARAKARAI.—12 m. 3 f. Metalled road, fit for all transport country partly wet cultivation. Route No. 9 joins here. 4 m. Elambal (760) 6 m. Kunnicode (1,030). 11 m. <i>nala</i> 50', stone bridge, fordable. <i>Camping-ground</i> .—10 acres N. and S. of village. <i>Water</i> .—From 2 tanks and wells for men and animals of 1 regiment. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—500 acres grazing 1 m. S. of village. <i>Supplies</i> .—Grain for 100 men for 14 days. Oxen 500; sheep 300. Vegetables in small quantities.
		114 m. 5 f.	
		12	KUNDARA.—7 m. Metalled road fit for all transport. Country dry and wet cultivation. 4 m. Yezukone (935). <i>Camping-ground</i> .—100 acres N.-W. and S.-W. of railway station. <i>Water</i> .—From wells, scarce in summer. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—500 acres grazing $\frac{1}{2}$ m. from village. <i>Supplies</i> .—Grain <i>nil</i> . Oxen 100; sheep 200; goats <i>nil</i> . vegetables in small quantities.
		121 m. 5 f.	
		13	QUILON.—9 m. 7 f. <i>Vide</i> Route No. 2; stage No. 10. Metalled road, fit for all transport. Country dry and wet cultivation. At $1\frac{3}{4}$ m. pass Ellamballur Cavu, 5 m. Killikallur (2,540). 6 m. stream 50', stone bridge, fordable.
		131 m. 4 f.	

ROUTE No. 3 (1).
FROM VAGAIKULAM TO OTAPIDARAM.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3 (1).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOOTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.		VAGAIKULAM <i>p.</i>
		1	THATTAPARAI.—6 m. 4 f. Railway Station. <i>p.l.r.</i>
		6m. 4f.	
		2	OTAPIDARAM.—7 m. 0 f. <i>p.</i>
		13m. 4f.	

ROUTE No. 3 (2).
FROM PALAYAKOIL TO GANGAIKONDAN.

Length.—34 m. 6f.

5 stages.

Epitome.—The first 5 m. is a sandy track, heavy but good; the next 10 miles is a good metalled and bridged road; the remaining portion is gravelled but unbridged.

Direction.—West-North-West.

COLLECTOR OF TINNEVELLY, PALAMCOOTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.		PALAYAKOIL.—On the Coast.
		1	MUKKANI.—2 m. 2 f.
		2m. 2f.	
		2	ARUMUGAMAN GALAM.—3 m. 0 f. <i>p.</i>
		5m. 2f.	
		3	VALLANAD.—19 m. 0f. <i>p.</i>
		24 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3 (2).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	4	SIVALIPERI —5 m. 4 f.
		29 m. 6 f.	
		5	GANGAIKONDAN.—5 m. 0 f. Cross the Chit- tar river, unbridged.
		34 m. 0 f.	

ROUTE No. 3 (3).

FROM TRICHENDUR TO PALAMCOTTAH.

Road metalled and bridged throughout, practicable at all seasons.

Direction.—West-North-West.

COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	TRICHENDUR.—On the coast.
		PALAMCOTTAH.—34 m. 0 f. <i>b.p.t.r.</i>
	34 m. 0 f	

ROUTE No. 3 (4).

FROM TINNEVELLY TO SRIVILLIPUTUR.

Length.—54 m. $4\frac{1}{2}$ f.

5 stages.

Road metalled and bridged, the Solasari river excepted, floods on this river subside in a day or two.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3 (4).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALANCOTTAR,	COLLECTOR COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	TINNEVELLY.—A large Municipal Town <i>b.p.t.r.</i> South Indian Railway Station. <i>Water</i> —Sufficient. <i>Supplies</i> .—Abundant.
		1	ALAGIAPANDA PURAM.—13 m. $5\frac{1}{2}$ f.
		13m. $5\frac{1}{2}$ f.	Cross the Chittar river, bridged. <i>Camping-ground</i> .—Nil, except road sides and river margins. <i>Water</i> .—Unlimited from wells and Chittar river except in summer when there is practically no water. <i>Supplies</i> .—From Tinnevely for 300 men at 1 month's notice.
		2	PANAVADALI.—9 m. 7f.
		23m. $4\frac{1}{2}$ f.	<i>Camping-ground</i> .—3 acres. <i>Water</i> .—Available from wells for 100 men and 50 animals. <i>Supplies</i> .—For 50 men and 20 animals at a fortnight's notice.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3 (4.)
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	3	SANKARANAIN ARKOIL—10 m. 4f. A bungalow and a native resthouse are here.
		34m. 0½f.	<i>b.p.t.</i> A branch road from here 9½m. long to route No. 4 is under construction (probably finished). <i>Camping-ground.</i> —30 acres N. of village adjoining the road. <i>Water.</i> —For 1,000 men and 500 animals from wells, except in summer when there is practically no supply. <i>Supplies.</i> —For 500 men and 200 animals at a week's notice.
		4	KARIVALAMVAN.—7m. 4f. DANALLUR.
		41m. 4½f.	<i>p.</i> <i>Camping-ground.</i> —30 acres S. of village near road. <i>Water.</i> —Unlimited. <i>Supplies.</i> —For 300 men and 100 animals at 14 days' notice.
		5	SRIVILLIPUTUR.—13 m. 0f.
		54m. 4½f.	<i>b.p.t.</i> <i>Vide</i> Route No. 4, stage 11. Cross Solasari river. unbridged. The road joins Route No. 4 at Rajapalaiyam. at 7 m.

ROUTE No. 3 (5).

FROM PALAMCOTTAH TO KADIEM.

Road good; metalled and bridged throughout.

Director—West-North North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3 (5).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PALAMCOTTAH.— <i>Vide</i> Route No. 1, final <i>b.p. t.r.</i> stage.
		1	KALLUR.—10m. 5½f. Small rest-house; supplies and water obtainable at all times, <i>b.p.</i>
		10m. 5½f.	but encamping-ground bad. At 3 miles pass Tinnevelly— <i>b.p. t.r.</i>
		2	PAPAGUD.—6m. 5f. No good encamping-ground. Water abundant, supplies obtainable. Cross two small streams, unbridged. <i>p.</i>
		17m. 2¾f.	KADIEM.—11m. 3f. Good encamping-ground; water scarce in hot season. Supplies obtainable but scarce.
		3	
		28 m. 5¾f.	

ROUTE No. 3 (6).

FROM ALIYATTA TO TENKASI.

Epitome.—As far as the Sarandai the road is partially metalled and bridged, practicable at all times except when the Chittar river is in flood. Thence to Tenkasi there are two routes, one by Pattakurni, in which one stream has to be crossed at Sarandai; the other by Villapavur in which the Chittar river is crossed, unbridged.

Direction.—North-West by West.

COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	ALIYATTA.—(Near Alangolam), <i>b.p. t.r.</i>
		1	SARANDAI.—8 m. 0f. Cross the Chittar river, unbridged but provided with a stone causeway, fordable except during floods.
		8 m. 0 f.	
		2	TENKASI.—8 m. 0f. <i>p. t. r.</i>
		16 m. 0f.	

ROUTE No. 3 (7).

FROM COURTALLUM TO TENKASI.

A good road, practicable at all seasons.

Direction—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3 (7).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	COURTALLUM or KUT- TALAM. <i>p.</i>
		1 3m. 4f.	TENKASI.—3m. 4f. <i>p. l. r.</i>

ROUTE No. 3 (8).

FROM TENKASI TO PAMBILIPATNAM.

A metalled road, practicable at all seasons.

Direction.—North-West.

COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	TENKASI.— <i>p. l. r.</i>
		1 7 m. 0f.	PAMBILIPATNAM.—7m. 0f.

ROUTE No. 3 (9).

FROM COURTALLUM TO PAMBILIPATNAM.

A metalled and bridged road, practicable at all seasons.
 Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 3 (9).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	COURTALLUM.— <i>p.</i>
		1	SHENCOTTAH.—4 m. 0f. <i>b.p.t.r.</i>
		4 m. 0f.	
		2	PAMBILIPATNAM.—3 m. 0f.
		7 m. 0f.	

ROUTE No. 3 (10).

FROM PUNALUR TO KAYANGULAM.

Metalled and bridged, practicable at all seasons.
 Direction.—North-North-West.

RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PUNALUR.— <i>b.p.r.</i>
		1	UDDAIYUR.—17 m. 0f. <i>Vide</i> Route No. 9, <i>b.</i> stage No. 2.
		17 m. 0f.	
		2	KAYANGULAM.—18 m. 0f. <i>Vide</i> route No. 2; <i>p.t.</i> stage No. 13.
		35 m. 0f.	

ROUTE NO. 4.

FROM PANAGUDI TO TIRUMANGALAM.

Length.—141 m. 1 f. 14 stages.

Authority and Date.—General Officer Commanding, 9th Division,
January 1919.

Epitome.—General direction N. This road is metalled throughout but unbridged. Fit for motors very nearly throughout. Unbridged streams are numerous between Panagudi and Tenkasi, but offer no obstruction, being fordable at all seasons of the year ; the remainder of the road is difficult in the rains.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	PANAGUDI.— <i>Vide</i> Route No. 1, stage 4. <i>p.t.</i>
		1 9 m. 0f.	<p>TRIKARANGUDI.—9 m. 0f. Metalled road, fit for wheeled transport; good repair.</p> <p>Country open and cultivated. Pass 2 villages, cross 3 small streams, unbridged. 9m. Nambyar river 100 yds., fordable, unbridged.</p> <p><i>Camping-ground.</i>—Good grove for Camp, $\frac{1}{2}$ sq. m. N.-W. of town.</p> <p><i>Water.</i>—Abundant from river and large tank.</p> <p><i>Fuel.</i>—Cut, 1 ton.</p> <p><i>Fodder.</i>—3 sq. m. of grazing for 500 animals 3 m. from town.</p> <p><i>Supplies.</i>—Grain for 600 men and 300 animals for 1 week. Sheep 100; goats 50.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALANCOOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	2	PACHMANERI.—8 m. Of. Metalled road, fit for (900). motors from this stage onwards.
		17 m. Of.	Cross 4 streams, unbridged but fordable. 1 m. pass Pudmaneri. 6m. Kalakad (477). Camping-ground.— $\frac{1}{2}$ sq. m. W. of village. Water.—From river for 350 men and 300 animals. Fuel.—Can be cut at 2 m. distant. Fodder.—1 sq. m. grazing for 500 animals 4 m. from village. Supplies.—Grain for 300 men and 100 animals for 1 week. Sheep 50; goats 25.
		3	SHERMADEVI.—10 m. Of. Headquarters of Deputy Collector. Police stations.
		27 m. Of.	4 m. Polavencudi (660). 5 m. Govindapuri (400). 9 $\frac{1}{2}$ m. cross Kopparai river, unbridged, fordable. Camping-ground.—N. of Railway Station. Water.—Unlimited supply from Kamadian Channel. Fuel.—Scarce. Fodder.—Unlimited grazing 1 m. from town. Supplies.—Grain for 4,000 men. Oxen 20; sheep 50; goats 50. Vegetables: chiefly plantains.
		4	AMBASAMUDRAM.—9 m. Of. Road is difficult for motors to cross Koriyar river.
		38 m. Of.	p.t.r. (9,125). Country open and cultivated. 1 m. Kunivar (1,460). 2 m. Vadakukarukurichi (2,653) 4 m. Vadakuvesrarmakar (11,870). 4 m. Ve

AUTHORITIES.		No. of stages and total distance.	ROUTE NO. 4.
Civil.	Military.		
COLLECTOR OF TENNEVELLY, PALAMCOTTAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>Marugali (3,300). 4 m. Koriyan river (200 yds.) unbridged, fordable. 8m. Kallidaikurichi (12,824).</p> <p><i>Camping-ground.</i>—N.E. of town 200' × 25', also 200' × 25½ m. away.</p> <p><i>Water.</i>—3 wells; 2 tanks, 1 channel and river. If channel full unlimited supply, otherwise only sufficient for 160 men and 50 animals.</p> <p><i>Fuel.</i>—Cut, 2 tons.</p> <p><i>Fodder.</i>—Grazing within 5 m.</p> <p><i>Supplies.</i>—Grain for 100 men and 50 animals. Oxen 20; sheep 30; goats 10. Vegetables plentiful in January and February.</p>
		5 16m. 2f.	<p>KADIEM.—10 m. 2f. Road difficult after heavy rain. Country wet and dry cultivation. 6 m. pass Ambur (5,450). The route from Kadayam to Brahmadesam has now been abandoned. The direct route from Kadayam to Ambasamudram, which is the Headquarters of Tahsildar, police station. 6½ m. Ghufavamudi river 100 yds., fordable, except in flood. 7 m. Alwar Kurichi (5,390). 7½ m. Varanadhi river 100 yds., fordable, except in flood. 8 m. Pottalpudur (1,895).</p> <p><i>Camping-ground.</i>—N. E. of town near station 330 yds. × 132 yards.</p> <p><i>Water.</i>—Unlimited from 2 rivers, 6 wells and 1 tank.</p> <p><i>Fuel.</i>—Very scarce.</p> <p><i>Fodder.</i>—Grazing unlimited in Forest Reserve 6 m. away.</p> <p><i>Supplies.</i>—Grain for 400 men. Oxen 30; sheep 100; goats 100. Country vegetables plentiful.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	6	TENKASI.—11 m. 0f. <i>Vide</i> Route No. 3, stage No. 6.
		57 m. 2 f.	Country stony. Cross 11 <i>nalas</i> 6' to 30' wide all bridged and fordable. 7 m. Mattalanpurai (927). 9½ m., Chitar River 100', bridged, fordable.
		7	NAINARAGARAM.—6 m. 0f. Country open (1,520). and cultivated.
		63 m. 2 f.	4 m. Kodikurichi (1,137). 4½ m. stream 20 yds., bridged. <i>Camping-ground</i> .—1 sq. m. and 1½ f. N. of vil- lage and 2 sq. m. near by. <i>Water</i> .—From 8 wells for 1,000 men and ani- mals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 200 animals, 6 m. from village. <i>Supplies</i> .—Grain for 50 men and 50 animals for 1 week. Oxen 500; sheep 400; goats 100. Vegetables in January to July.
		8	PULIANGUDI.—12 m. 0f. Road unfit for p.(8,950). motors only. Country open and jungly.
		75 m. 2 f.	Western Ghats are 2-5m. from road. Cross 9 <i>nalas</i> 20' to 60', some bridged, all fordable. 1m. Idai Kal (1,150). 6m. pass Kadianallur (10,550). 7 m. Krishnapuram (4,600). 10m. Sökkamputti (6,550). 11 m. Chooltry (3,000). <i>Camping-ground</i> .—10 acres S. of town. <i>Water</i> .—6 wells for 10,000 men and animals. <i>Fuel</i> .—100 tons stacked. <i>Fodder</i> .—Grazing for 5,000 animals in hills 5m. away.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4.
Civil.	Mili- tary.		
COLLECTOR OF TINNEVELLY, PALAMCOOTQH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<i>Supplies.</i> —Grain for 10,000 men and animals for 1 month. Oxen 2,770; sheep 450; goats 170. Vegetables obtainable.
		9	SHIVAGIRI.—11 m. 4f. Road unfit for motors only. Country dry and wet cultivation. W. Ghats 6 m. away. $\frac{3}{4}$ m. Chintamani (6,900). 3 m. Subtamanipuram (650). <i>Camping-ground.</i> —4 acres N. of town, 2 acres W. of town. <i>Water.</i> —20 wells for 10,000 men and animals. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing in hills 4 m. away. <i>Supplies.</i> —Grain for 10,000 men and animals. Oxen 7,000; sheep 1,500; goats 1,000. Vegetables obtainable.
		86 m. 6 f.	
		10	SETTUR.—7 m. 4f. Road fit for motors. Country mostly flat and open. Headquarters of a Zemindar. $3\frac{1}{4}$ m. Derayar river 70', unbridged, fordable. $5\frac{1}{4}$ m. Korayar river 80', unbridged, fordable. <i>Camping-ground.</i> —25 acres S. and S.-E. of town. <i>Water.</i> —8 wells and 1 tank for 1 Battalion and transport. <i>Fuel.</i> —Obtainable from Zemindar forest at 4 m. <i>Fodder.</i> —Grazing from Zemindar Forest at 4 m. <i>Supplies.</i> —Grain for 1,000 men for 2 days. Other supplies obtainable.
		94 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		11 107m.2 f.	<p>SRIVILLIPUTUR.—13 m. 0 f. Road fit for motor b.p.t. (29,000). A large municipal town, Tahsil station, police station. From this place a metalled road 24½ m. long runs to Satur even on Route No. 5: 1¼ m. Lingnadai river 100' unbridged, fordable. 5m. stream, bridged 50'. 7 m. Kayakadi river, 120', bridged. 7½ m. pass Rajalpalaiyam (29,000) where route No. 3 (7) turns off.</p> <p><i>Camping-ground.</i>—Only dry tank beds are available.</p> <p><i>Water.</i>—From wells, ponds, river and an irrigation tank for 1,000 men and 300 animals except in summer when only half this number could be watered.</p> <p><i>Fuel.</i>—500 tons stacked.</p> <p><i>Fodder.</i>—Grazing within 3 m. for 500 animals.</p> <p><i>Supplies.</i>—Grain for 2,000 men and 300 animals. Meat and Vegetable supplies obtainable.</p>
		12 117m.2 f.	<p>NATAMPATT.—10 m. 0 f. Road fit for motors. b. (1,100). Country flat and open.</p> <p>Cross several small <i>nalas</i> unbridged.</p> <p><i>Camping-ground.</i>—In big tank bed when dry.</p> <p><i>Water.</i>—From wells, ponds and irrigation tanks for 500 men and 100 animals. Only half the quantity in summer.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing for 500 animals for 2 days.</p> <p><i>Supplies.</i>—Scarce. A market is held every Wednesday.</p>

ROUTE NO. 4.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		13	KALPATHI.—12 m. 0 f. Road unfit for motors. Country flat and open. Natampati and Arugavathi streams are crossed in the first two miles, each about 50 yds. wide, most of them unbridged, fordable, also some small <i>nalas</i> bridged, all fordable. 1 m. Moonasaivendam. 11 m. Amaputti.
		120 m. 2 f.	Camping-ground.—2 acres W. of village. Water.—1 tank and 20 wells for 200 men and animals. Fuel.—Nil. Fodder.—Grazing for 25 animals only. 1 m. away. Supplies.—Grain for 50 men and animals for 1 day. Oxen 15; sheep 300; goats 10. Vegetables for 100 men.
		14	TIRUMANGALAM.—11 m. 7 f. Road fit for motors except during rains. South India Railway Station. Route No. 10 joins here. 3 m. Kundalur, cross <i>nala</i> 180', fordable. 6 m. Pudupatti. 9 m. Alampatti.
		141 m. 1 f.	Camping-ground.—For two Regiments S. of village, also N. of village when crop is off. Water.—300 men and 100 animals. Fuel.—Can be cut near village. Fodder.—Grazing nil. Supplies.—Grain nil. Oxen 100; sheep 200; goats 200. Vegetables 100 lbs.

ROUTE No. 4 (1).

FROM TRIKARANGUDI TO NANGUNERI.

Road metalled and bridged, practicable at all seasons. Cross the Nambiar river, unbridged.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4 (1).
Civil.	Military.		
COLLECTOR OF TIN-NEVELLY, PALAMCOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TRIKARANGUDI— <i>p.</i> <i>Vide route No. 4, stage No. 1.</i>
		1 <i>8m. 3f.</i>	NANGUNERI— <i>8m. 3f.</i> <i>b.p.t.</i>

ROUTE No. 4 (2).

FROM SHERMADEVI TO PALAMCOTTAH.

This road is metalled but unbridged. It is practicable at all seasons except for a few days when the Pachayar river is in heavy flood. It is the best route between the two places.

Direction.—East-North-East.

COLLECTOR OF TIN-NEVELLY, PALAMCOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	SHERMADEVI — <i>p.t.r.</i>	
		1	PIRANCHERRY.— <i>5m. 4f.</i>	Supplies and water good ; Camping-ground good.
		<i>5m. 4f.</i>		
		2	PALAMCOTTAH.— <i>9m. 4f.</i>	Cross the Pachayar river, unbridged, at $3\frac{1}{2}$ m. near Tharavi, heavy sand.
		<i>15 m. 0 f.</i>	<i>b.p.t.r.</i>	

ROUTE No. 4 (3).

FROM SHERMADEVI TO KALLUR.

Cross the Tambraparni river, bridged. A made road, metalled and bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4 (3).
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	SHERMADEVI.— <i>p. r.</i>
		1	KALLUR.—3m. 0 f. <i>b. p.</i>
		3 m. 0 f.	

ROUTE No. 4 (4).

FROM KALLADA KURCHI TO PAPANASAM.

Road metalled and bridged, practicable at all seasons.

Direction.—North-West.

COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KALLADAKURCHI.—Police station. Supplies abundant. Camping-ground good. water from river abundant and good at all seasons.
		1	PAPANASAM.—7m. 4 f. Camping-ground good. Water and supplies abundant and good. At 1 m. 4 f. pass Ambasamudram, a large place. Headquarters of Tahsildar. Cross the Tambraparni river, bridged.
		7 m. 4 f.	

ROUTE No. 4 (5).

FROM AMBASAMUDRAM TO PAPAGUDI.

Cross the Gatanai river, unbridged.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4 (5).
Civil.	Mili- tary.		
COLLECTOR OF TINNEVEL- LY, PALAMCOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	AMBASAMUDRAM.— <i>p.l.r.</i>
		1	PAPAGUDI.—5m. 6f. <i>p.</i>
		5m. 6 f.	

ROUTE No. 4 (6).

FROM BRAHMADASAM TO PAPANASAM.

First $1\frac{1}{2}$ m. gravelled, thence metalled and practicable at all seasons.

Direction.—South-West by West.

COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	BRAHMADASAM.—
		1	AMBASAMUDRAM.—1m. 4f. <i>p.l.r.</i>
		1 m. 4f.	
		2	PAPANASAM —6 m. 0 f.
		7m. 4f.	

ROUTE No. 4 (7).

FROM PAPANSAM TO AMBUR.

Unmetalled but bridged, practicable at all seasons.
 Direction.—East-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4 (7).
Civil	Military		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH. G. O. C., MADRAS DISTRICT, WELLINGTON.		..	PAPANASAM.—
		1	AMBUR.—4m. 4f. p.r.
		4 m. 4f.	

ROUTE No. 4 (8).

FROM PAMBLIPATNAM TO SIVAKASI.

Up to Kadianallur, the road is metalled and partly bridged and practicable at all seasons, thence to Sivakasi it is a track impracticable in the rains.

Direction.—North-East.

COLLECTOR OF TINNEVELLY, PALAMCOTTAH. G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PAMBILIPATNAM.
	1	KADIANALLUR.—Cross two streams, un- p. bridged.
	2	SANKARANAINARKOIL.— p.
	3	SIVAKASI.—28m. 0f. Cross the Vaipar river, p.l. unbridged.

ROUTE No. 4 (9).

FROM PULIANGUDI to SANKARANAINARKOIL.

Road under construction, will be metalled.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4 (9).
Civil.	Military.		
COLLECTOR OF TILLEV- LY, PALAMCOITAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PULIANGUDI.— <i>p.</i>
		1	SANKARANAINAR KOIL.—9m. 6f. <i>p.t.</i>
		9 m. 6f.	

ROUTE No. 4 (10).

FROM VASUDEVANALLUR to SANKARANAINARKOIL.

Cross the Kolliar river, unbridged. A fair weather track impracticable in the rains.

Direction.—East-South-East.

COLLECTOR OF TINNEVELLY, PALAMCOITAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	VASUDEVANALLUR.— <i>p.t.</i>
		1	SANKARANAINAR KOIL.—10 m. 0f. <i>p.t.</i>
		10 m. 0f.	

ROUTE No. 4 (11).

FROM SRIVILLIPUTUR TO WATRAP.

Epitome.—Road metalled and bridged, practicable at all seasons.*Direction.*—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 4 (11).
Civil.	Military.		
COLLECTOR OF PINNEVELLY PALANGOTTAH. G. O. C., MADRAS DISTRICT, WELLING- TON.		..	SRIVILLIPUTUR.— <i>b.p.t.</i>
		1	WATRAP.—12 m. 0f. <i>p.</i>
		12 m. 0f.	

ROUTE NO. 5.

FROM PALAMCOTTAH TO TINDIVANAM.

Length.—345 m. 3 f.

36 stages.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—North-north-east. This road is metalled and partially bridged so as to be practicable at all seasons as far as Kulathur, thence to the boundary of the Tinnevely District it is an unmade fair-weather road; from this point to Devipatnam it is gravelled or metalled and bridged, thence to the boundary of the Madura District it is again unmade and practicable in fair-weather only, after which, it is earthen but bridged to near Karikal, from which place to about 5 m. beyond Tranquebar it is metalled and bridged. The road is then again earthen to Anikarai Chattram. The remainder of the road is metalled or gravelled and bridged; practicable for heavy wheeled traffic at all seasons. Between Vaipar and Adirampatnam, the country traversed is barren and little cultivated; good water is scarce in the dry season and fever is prevalent in hot months. Thence to Putupet the road traverses a flat thinly populated country, the soil of which is strongly impregnated with salt and in some places very swampy; good water is scarce and fever prevails from February to July in some degree.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PALAMCOTTAH.— <i>Vide</i> Route No. 1 final stage. <i>b.p.t.r.</i>
		1	SIVALIPERI.—8 m. 0f. Metalled road, fit for motors. Country cultivated and open.
		8 m. 0f.	Cross the Tambraparni river, unbridged at 7½ m. 500 yds. 2 ferry boats available. Camping-ground.—11,000 yds. × 4,400 yds. E. of village and on pattu lands near.

AUTHORITIES.

Civil.

Mili-
tary.No.
of
stage
and
total
distance.

ROUTE NO. 5.

COLLECTOR OF TINNEVELLY, PALANCOOTTAH.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

2

16 m. 0f.

Water.—For 200 men and 100 animals only.
Fuel.—At a week's notice.
Fodder.—Nil.
Supplies.—Of all sorts, except vegetables at a week's notice.

NIYACHIL.—8 m. 0f. Road metalled and gravelled, fit for motors.
p. (1,965) Country open and cultivated. $\frac{3}{4}$ m. stream 63', fordable. 1 m. Railway station. 6 m. Akkanayakanpatti (1,700).

Camping-ground.—

Water.—5 wells and 1 tank for 500 men and animals.

Fuel and Fodder.—Nil.

Supplies.—Grain for 500 men and animals at 1 week's notice. Sheep 25; goats 15. Vegetables from weekly market.

3

26 m. 1f.

OTAPIDARAM.—10 m. 1f. Road metalled and gravelled, fit for motors. Country

open and cultivated. Pass 1 stream, bridged, 3 unbridged, all easily fordable. A Tahsildar station. A good metalled road 6 m. long runs to Tatappare, a Railway Station. 2 m. Tarikattam (800). 5 m. Kompadi (1,650)
Camping-ground.—847 yds. \times 339 yds. S. W. of village.

Water.—20 wells and 2 tanks for 500 men and 200 animals.

Fuel.—10 tons.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Fodder.</i>—100 acres grazing for 500 animals 1 m. away.</p> <p><i>Supplies.</i>—Grain for 500 men and 400 animals, at 1 week's notice. Sheep 25; goats 25.</p>
		4	<p>KARUKKUCHALAI.—5 m. <i>Vide</i> main Route No. V, stage No. 1.</p>
		31m. 1f.	
		5	<p>VEDANATTAM.—4 m. 5f. Route metalled and (1,475). gravelled, fit for motors. Country undulating with thorny jungle. 1m. stream 50', bridged, 2 m. Shanmugapuram. 3½m. stream 50', bridged.</p> <p><i>Camping-ground.</i>—Only in tank bed W. of village.</p> <p><i>Water.</i>—From a tank, scarce except in rains.</p> <p><i>Fuel and Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 100 men and 100 animals. Sheep 20; goats 20. Vegetables obtainable.</p>
		35m. 6f.	
		6	<p>KULATHUR.—4m. 2f. Road metalled and fit for motors. Country undulating with thorny jungle. Cross Kala Oday inundation. 1m. Venkatesvarapuram (530). Cross Vaippar river 880 yds., fordable, no boats available.</p> <p><i>Camping-ground.</i>—W. of village 880 yds. × 352 yds.</p> <p><i>Water.</i>—Abundant in wells.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing for 1,500 animals for 2 months; 700 acres in extent, 3 m. from village.</p>
		40m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military		
COLLECTOR OF TENNEVELLY, PALANCOOTAIL.	COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p><i>Supplies.</i>—Grain, rice 800 vis, Thanasam 20,000 vis, raggy 500 vis. Horse grain 20,000 vis, January and February only. Oxen 500; sheep 2,500; goats 500.</p>
			<p>VAIPPAR.—3m. 6f. Road is only a sandy path, unfit for motors and difficult for even bullock carts. Country undulating, prickly jungle on both sides and some cultivation. A number of streams overflow after heavy rain and form a sheet of water 1,000 yds. across.</p> <p><i>Camping-ground.</i>—A "tope" 194 yds. × 77 yds. W. of village.</p> <p><i>Water.</i>—Unlimited supply from river.</p> <p><i>Fuel.</i>—From Forest Reserve 2m. distant.</p> <p><i>Fodder.</i>—200 acres across Vaippar river 2m. distant, sufficient for 200 animals for 2 months.</p> <p><i>Supplies.</i>—Grain from Kulathur. Oxen 300; sheep 300; goats 100.</p>
		GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p>TANGAMAPURAM.—9 m. Old, unmaintained road, fit for wheeled traffic in dry season only. Country open and cultivated, small jungle. Cross Vaippar river, 600 yds. wide, unbridged, fordable except in rains. 1 boat for 20 men available. 1½ m. Pallakulam (620). Kalaijnapuram, (420). 2 m. channel 15 yds., unbridged, fordable. 2½ m. Velayandhapuram (800').</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>5m. Melmandai (2,050). 6m. Shunmughapuram (475). 8m. Surangudi (1,265). <i>Camping-ground</i>.—100 acres of sandy grounds. <i>Water</i>.—1 tank and 11 wells for 200 men for 1 month. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 50 men for 30 days. Sheep 200 ; goats 100.</p>
		9	<p>KUDDUGUSHUNDAY.—14 m. Track only unfit for wheeled traffic. Country undulating. No cultivation. 2 m. Hoop river, unbridged, 100' fordable. 9½ m. Sayalgudi (1,850), where a road to Madura turns off. 12m. Gundur river. 100 yds. unbridged, unfordable in rains. <i>Camping-ground</i>.—5 acres 1½ m. S. W. of village. <i>Water</i>.—From a tank, <i>nala</i> and wells for 500 men. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Sheep 100 ; goats 100 ; grain <i>nil</i>.</p>
		10	<p>SIKKAL.—11 m. Of Track only, unfit for wheeled traffic. Country undulating, no cultivation. 5 m. channel, 25', unbridged. 7 m. Kadugusandai.</p>
		66 m. 6f.	
		77 m 6f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground.</i>—10 acres E. of village. <i>Water.</i>—For 500 men from tank. <i>Fuel and Fodder.</i>—Nil. <i>Supplies.</i>—Grain <i>nil</i>. Sheep 100; goats 100.</p>
		11	<p>UTTARAKOSHAM.—8m. 3f. Track only, unfit ANGAL. for wheeled (1,350). traffic. Country open, and dry cultivation. <i>Camping-ground.</i>—30 acres E. of village. <i>Water.</i>—1 tank and 12 wells for 1,000 men and animals. <i>Fuel, Fodder and Supplies.</i>—Nil.</p>
		86 m. 1f.	
		12	<p>RAMNAD.—7m. 5f. Track only, unfit for <i>p.t.r.</i> (15,1000). wheeled traffic. Country flat and dry cultivation. Routes Nos. 6 and 12 join here. Headquarters of Sub-Collector and Deputy Tahsildar. <i>Camping-ground.</i>—50 acres S.E. of town. <i>Water.</i>—Abundant from a tank and 12 wells for 4,000 men and animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Available in large quantities.</p>
		93 m. 6f.	
		13	<p>DEVIPATNAM.—9 m. Road partly metalled <i>b.p.t.</i> but unfit for motors.</p>
		102m. 6f.	
			Country flat and well cultivated.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>Road crosses one large and three small <i>nalas</i>, all unbridged.</p> <p><i>Camping-ground</i>.—For 3 Regiments, 2f. S. of village, also N. E. 100 acres. The sea is at 200 yds. to the right.</p> <p><i>Water</i>.—From a tank and well for 1,000 men.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Limited.</p>
		14	<p>UPPUR (UPPOOR).—10 m. 0f. Sandy track and fit for double bullock carts only. Country opens generally flat and barren, cultivated in parts. A large rest-house 2 f. from village. Cross 3 <i>nalas</i>, unbridged. 5m. Tirruppalakudi (2,700).</p> <p><i>Camping-ground</i>.—10 acres S. W. of village.</p> <p><i>Water</i>.—From wells and a fresh water tank, unlimited in rain, scarce in dry weather.</p> <p><i>Fuel</i>, and <i>Fodder Supplies</i>.—Nil.</p>
		112m. 6f.	<p>15</p> <p>TONDI.—10 m. 0f. A port, steamers lie 5 m. off. Sandy track, fit only for bullock carts.</p> <p>Country partly cultivated, partly thorny scrub. A large rest-house here. 3m. Kottaikaranar stream, 220 yds, fordable. 4 m. Manakudi (550). 7m. Manimuthanadi stream, 60', fordable.</p> <p><i>Camping-ground</i>.—10 acres N.-W. of town.</p> <p><i>Water</i>.—For any number.</p> <p><i>Supplies</i>.— For 200 men without and for and number with notice.</p>

ROUTE NO. 5.

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

COLLECTOR OF TANJORE, TANJORE.

GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.

16

129 m.
6 f.

KALLIANGARAI.—7 m. 0f. Sandy track, fit only for bullock CHATRAM. carts. Country

b. partly cultivated, some thorny scrub and Coconut trees. Route No. 11 joins at this stage. 1m. stream 100 yds, fordable. 4m. 2 streams 110 yds, fordable. 4½ m. Naranpal (150). 5 m. Vattanam (900).

Camping-ground.—Small. 1 f. E. of village.

Water.—Plentiful from 3 stone wells.

Fuel.—Can be cut from scrub jungle near.

Supplies.—Nil.

17

139 m.
1 f.

MIMISAL.—9m. 3f. Road sandy and narrow, passable by b.p. (250). carts. Country part-

ly cultivated, undulating, prickly jungle on both sides. At 4m. pass through Sundarapandyapatnam which has a fair Local Fund Dispensary. At 8½ m. cross the Kolawen river, unbridged, 100. yds. 1m. Pasipatnam. 3m. Tirthandathanam. 5 m. Pudukkundi and river, unbridged, 440 yds.

6m. Andiyer river, 220 yds, unbridged. 6m. Ponnamangatam 7m. Arasanageri. 8m. Pudupatnam.

Camping-ground.—2 sq. m. 1 furlong S. of village.

Water.—In abundance from tank and well.

Fuel and Fodder.—Nil.

Supplies.—Grain for 1,000 men and 500 animals for 3 days. Sheep 500; goats 300.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		18	MANNAMALEKUDI.—10m. 0f. Sandy track, passable by carts. Count-
		149 m. 1 f.	ry flat, partly jungle, large groves of trees passed, paddy on left of road. Sea 1 mile to the right. Local Fund Dispensary; Raja's rest-house. Cross numerous <i>nalas</i> , unbridged. 5m. Kilamanjakudi (880). 7m. Kotapatnam. <i>Camping-ground</i> .—50 acres E. of village. <i>Water</i> .—From tank and springs for 500 men and animals. <i>Fuel and Fodder</i> .—Nil. <i>Supplies</i> .—Only sheep 100; goats 100.
		19	YENADINAIDU.—9 m. 0f. Sandy track, for carts only.
		158 m. 1 f.	Country flat and open with much wet cultivation. Sea at 3 furlongs to the right. 1m. Vadagupatam (600). 1½ m. Vellar river, 100 yds. (water only flows for few days in the year). Also <i>nala</i> , unbridged. 3½ m. Mumhalai (280). 4½ m. Melaskaram (550). 5 m. Krishnajipatnam. (450). <i>Camping-ground</i> .—33 acres at 1 f E. of village. <i>Water</i> .—Brackish, from a tank. <i>Fuel, Fodder and Supplies</i> .—Nil.
		20	SATHUBAVA.—9m. 5f. Mud road, fit for wheeled transport in dry weather only.
		167 m. 6 f.	CHATRUM. Country flat and open, wet cultivation. 1m. village (350). Cross <i>nala</i> , 30', unbridged 2 m. river, 276', unbridged, fordable. 4m. river, 266', unbridged, fordable.

ROUTE NO. 5.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>3$\frac{3}{4}$m. Vuddapatam (380). 4$\frac{1}{2}$m. Shomanathapatam (270). 5$\frac{3}{4}$m. Vatherepatam (320'). 6m. Shamhaipatam (400). 7m. Umbliyar river (948), unbridged, fordable.</p> <p><i>Camping-ground</i>.—60 acres E. of village, close to sea.</p> <p><i>Water</i>.—For 1,000 men and 300 animals from wells and 3 tanks—2 of these tanks go dry in hot weather.</p> <p><i>Fuel</i>.—Up to 100 cart loads can be cut.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 500 men for 3 days. Oxen 100; sheep 400; goats 200.</p>
		21 178 m. 0 f.	<p>ADIRAMPATNAM.—10 m. 2 f. A seaport town with lighthouse.</p> <p>Mud road, last 3m. gravelled, difficult for carts in rains, much sand. Country open and cultivated, with topes. Route No. 17 joins here. $\frac{5}{8}$m. <i>nala</i>, 57', unbridged, fordable. 1$\frac{1}{2}$ m. village (150). 3 m. village (190). 3m. Pappan Kanar river, 264', unbridged, fordable. 2m. village. 5m. Puthupatnam. 6 m. Chinna Arvedeareovel. 6$\frac{1}{2}$m. Aganavenaswami river, 1,390', unbridged, fordable. 6$\frac{3}{4}$m. Rajah's moddum.</p> <p><i>Camping-ground</i>.—100 acres W. of town.</p> <p><i>Water</i>.—6 (drinking) wells, 5 (drinking) tanks; 5 other tanks, for 10,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—500 cart loads.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 1,000 men for 1 month. Oxen 200; sheep 300; goats 200.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	22	<p>MUTTUPET.—9 m. 0 f. Sandy track, fit for bullock carts only. <i>b. p. t. r.</i> (8,890). Country wooded and cultivated. South Indian Railway Station. Local Fund Dispensary. 1 m. Kathan river, 360', fordable, 4' deep in rains. Currungcaud (3,176). 2 m. Mudukkakadu. 3 m. Karassukkadu. 4 m. Maravakkadu Railway Station. 5 m. Mellakkadu. 5 m. canal, 100', brick bridge. 6 m. Vadukkadu. 7 m. Kilakkadu. 8 m. Sembadavankadu (2,359). 8 m. Pamani river, 300', brick bridge.</p> <p><i>Camping-ground.</i>—For 3 regiments on bank of Pamani river, which is bridged at this point.</p> <p><i>Water.</i>—For 1,000 men and 500 animals.</p> <p><i>Fuel.</i>—Cut, 100 tons.</p> <p><i>Fodder.</i>—100 acres grazing 3 m. from town.</p> <p><i>Supplies.</i>—Grain for 2,000 men and 1,000 animals. Sheep 50; goats 20. Vegetables for 500 men.</p>
		187 m. 0 f.	
		23	
		202 m.	<p>TIRUTURAI PUNDI.—15 m. 0 f. Sandy track, fit for bullock carts only. Country wooded and cultivated. Route No. 20 crosses here. Headquarters of a Tahsildar. Local Fund Dispensary. 1½ m. Alangudu (1,332). 2 m. Uppur (1,360). Stream, 33', brick bridge, fordable. 4 m. Koraiyar river, 100', brick bridge, unfordable. Udayamartandapuram, (1,928). 5½ m. Pama-thur (1,460). 6½ m. Singandhi (740). 7¼ m. stream, 33', brick bridge, fordable. 7½ m. stream, 100', brick bridge, fordable. 8 m.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>Edaiyur (1,830). 9½ m. Pundy (470). 10½ m. Perriapandy (700). 12 m. Kallikundy (755). 13½ m. Neddumpullan (1,092). 14½ m. Singalandhi (2,120).</p> <p><i>Camping-ground.</i>—4 acres S. of town.</p> <p><i>Water.</i>—From 8 tanks and 10 wells for 2,000 men and 4,000 animals.</p> <p><i>Fuel.</i>—Cut, 400 maunds.</p> <p><i>Fodder.</i>—45 acres grazing 1 m. from village.</p> <p><i>Supplies.</i>—Grain for 2,000 men and 4,000 animals. Sheep 250; goats 250. Vegetables 500 maunds.</p>
		24	<p>VAILANKANNI.—18 m. 3 f. A seaport. p. (3,000'). Road unmetalled but bridged, fit for wheeled transport at all seasons. Country open and cultivated. 4 m. <i>nala</i>, 30', bridged. 9½ m. <i>nala</i>, 15', masonry bridge. 11 m. Kilayar (1,380). 13½ m. canal, 30'. 15 m. Tiruppundi (2,100). 18 m. Ullayar river, 100', masonry bridge, 10 boats for 10 people each available.</p> <p><i>Camping-ground.</i>—100 acres in topes E. of village.</p> <p><i>Water.</i>—From tanks and 2 wells for 500 men and 200 animals.</p> <p><i>Fuel.</i>—100 cartloads.</p> <p><i>Fodder.</i>—Grazing for 200 animals.</p> <p><i>Supplies.</i>—Rice for 1,500 men. Oxen 50; sheep 200; goats 200—all at a week's notice. Vegetables for 400 men daily.</p>
		220 m. 3 f.	
		25	
		227 m. 3 f.	<p>NEGAPATAM.—7 m. 0f. A large town and b. p., t. r. (34,480'). port. Terminal station and work-shops, South Indian Railway. Headquarters of Sub-Collector, Civil Hospital.</p>

AUTHORITIES.		No of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. FRENCH TERRITORY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>Road unmetalled except last 2 m., fit for wheeled transport, wet cultivation all the way. 2 m. village (2,550). 3 m. Kaduvayar river, 100', masonry bridge, fordable except in rains, when boats are available. 4 m. Vadakkupoyyur (4,300), stream 30', masonry bridge. 5 m. Karuvelangadi (1,070). 5 m. Pappacoil (1,830). 6 m. Andanepettai (4,560).</p> <p><i>Camping-ground.</i>—20 acres, 2 m. S.-W. of town.</p> <p><i>Water.</i>—10 wells for drinking and 5 tanks, for 500 men and animals.</p> <p><i>Fuel.</i>—Stacked in depots.</p> <p><i>Fodder.</i>—Grazing near for 500 animals.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 500 animals for a fortnight. Oxen 200; sheep 200. Vegetables for 500 men.</p>
		26	<p>KARIKAL.—12 m. 2 f. A French town. <i>p. t. r.</i> Seaport and Railway Station. At 4½ m. pass Nagore Station (13,800). Salt canal to Point Calimere begins here. Gravelled road, in good repair, fit for wheeled transport. Country open and cultivated. 4 m. Vettar river, 250', masonry bridge, fordable except in flood, boats obtainable. At 4½ m. French territory.</p>
		239 m. 5 f.	
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	27	<p>TRANQUEBAR.—7 m. 2 f. Gravelled and <i>b. p. t.</i> metalled road, good repair, fit for motors. Pass villages in French Territory. At 7 m. Mandalar river, bridged. Country, paddy fields. Seaport. Headquarters of a</p>
		246 m. 7 f.	

AUTHORITIES.		No of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			Deputy Tahsildar. Local Fund Dispensary. 7 m. Paranai. <i>Camping-ground</i> .—Available. <i>Water</i> .—From 10 wells, 500 men and animals <i>Fodder</i> .—For 500 animals. <i>Fuel</i> .—Obtainable. <i>Supplies</i> .—Grain for 500 men and animals. Oxen 630; sheep 8; goats 1,506.
		28	TALACHENKADU.—10 m. 6 f. Mud road, in good condition, unfit for motors.
		257 m. 5 f.	Country open and cultivated. 2 m. Kolliappimallur (1,365). 1 m. <i>nala</i> , 15', bridged. 3 m. Manamodo (888). 4 m. <i>nala</i> , 10', bridged. 5 m. Tirukkadaiyur (3,226). 6 m. Udayavarkoilpathu (1,600).—6 m. <i>nala</i> , 48, bridged. 8 m. Managodi. <i>Camping-ground</i> .—4,000 sq. yds., E. of village. <i>Water</i> .—From 1 tank and 2 wells for 200 men and 100 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 200 men and 100 animals for 7 days. Oxen <i>nil</i> ; sheep 100; goats 100. Vegetables only in very small quantities.
		29	SHIYALI.—9 m. 3 f. Mud road unfit for motors. Country covered with rice cultivation. Headquarters of Tahsildar. Big temple. Route No. 8 joins here. Railway Station. Road crosses 5 <i>nalas</i> , largest 95' wide, unfordable, but all have brick bridges across them.
		267 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF TANTORE, TANTORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>1 m. Rathamallore (2,139). 2½ m. Sunpattu (1,560). 3½ m. Kattuya (1,050). 5½ m. Karaimodu (1,760). 8½ m. Satanadapuram (1,139).</p> <p><i>Camping-ground</i>.—20 acres, N. E. of town.</p> <p><i>Water</i>.—<i>Nala</i>, 14 tanks and 24 wells, for 500 men and 300 animals.</p> <p><i>Fuel</i>.—200 maunds, cut.</p> <p><i>Fodder</i>.—Grazing for 200 animals 1 m. away.</p> <p><i>Supplies</i>.—Grain for 500 men and 200 animals. Oxen 4; sheep 200; goats 200. Vegetables for 200 men.</p>
COLLECTOR OF SOUTH ARCOT, CUDDALORE.		<p>30</p> <p>277 m. 4 f.</p>	<p>AMMAPET—10 m. 4 f. Gravelled road, in moderate repair. fit for wheeled transport. Country wet cultivation. At 6½ m. from Shiyali pass Anakarai Chattram and Coleroon river, 1 m. unbridged, fordable except after heavy rains; ferry maintained, Foot passengers can cross by Railway (S. I. R.) bridge close by. 7½ m. old Coleroon river, 22 yds., bridged. 7½ m. Vallampadugai (1,650). 8½ m. Uppanar stream, 22', bridged.</p> <p><i>Camping-ground</i>.—No regular ground, but small space in and near Dak Bungalow compound can be used.</p> <p><i>Water</i>.—From 1 well and enannels for men and animals of 1 battalion.</p> <p><i>Fuel</i>.—Scarce.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain nil. Oxen 25; sheep 100; goats and vegetables nil.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		31	<p>RAMALINGA or 11 m. 4 f. Gravelled road; PUDUCHATIRAM. fit for motors in b. r. (1,400). this stage. Country wet cultivated to 5½ m., thence scattered plantation. 1 m. Chidambaram (21,000). 5½ m. Mutlur (2,400). Cross Vellar river; unbridged, fordable, 200 yds., ferry boat for 50 men kept.</p> <p><i>Camping-ground.</i>—Limited space E. of village.</p> <p><i>Water.</i>—From 1 tank and 1 well, for men and animals of 1 battalion.</p> <p><i>Fuel</i>—50 tons stacked.</p> <p><i>Fodder</i>—Grazing; limited amount within 2 m.</p> <p><i>Supplies.</i>—Grain for men and animals of 1 company at Tuesday market. Sheep 25; goats 10. Vegetables scarce.</p>
		289 m. 0 f.	
		32	
		296 m. 4 f.	
		33	<p>SHONAGAN'S 7 m. 4 f. Metalled road, fair CHOULTRY repair, but not fit (600). for motors. Country is all cultivation. Pass Alapakkam Railway Station in this stage. 3½ Kayalpattu (700). 2 m. stream, bridged.</p> <p><i>Camping-ground.</i>—5 acres.</p> <p><i>Water.</i>—From tanks and streams.</p> <p><i>Supplies.</i>—Must be brought from Cuddalore.</p>
		306 m. 1 f.	
			<p>MANJAKUPPAM.—9 m. 5 f. Road in good (CUDDALORE). repair. Country is b. p. t. r. all cultivation.</p> <p>Railway Station at Cuddalore. Routes Nos. 19, 23, and 32 join here. ½ m. channel, 20 yds., bridged, Senbankappam (2,100). 2 m. Annavalli (2,750). 3½ m. Rudikadu (1,875). 8 m. Cuddalore (56,570).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	COLLECTOR OF FRENCH TERRITORY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p><i>Camping-ground</i>.—100 acres within Municipality.</p> <p><i>Water</i>.—Abundant.</p> <p><i>Fuel</i>.—Cut, stacked.</p> <p><i>Fodder</i>.—Grazing for 100 animals.</p> <p><i>Supplies</i>.—</p> <p>Vegetables obtainable.</p>
			<p>34</p> <p>319 m. 2 f.</p> <p>PONDICHERRY.—13 m. 1 f. Metalled road, fit for motors. Country all cultivation.</p> <p>French Territory, Routes Nos. 33 and 34 join here. All rivers can be crossed by Catamarans. At 1 m. Creek, 800 yds., fordable Gurdu Appalavadi (1,200). 1½ m. village (500). 2 m. village (900). 2½ m. village (200). 5 m. stream, unbridged, 20 yds., fordable. 7 m. river, 170 yds., bridged, Kalanjipet (600). 8½ m. Sengenkudi (1,000). Ariankuppam river, 23', bridged. 10 m. Kelenjikkuppam (1,000). Cross Ginjee river, 50 yds., unbridged.</p> <p><i>Camping-ground</i>.—No recognised ground.</p> <p><i>Water</i>.—From wells, limited supply.</p> <p><i>Fuel</i>.— } Limited supply.</p> <p><i>Fodder</i>.— }</p> <p><i>Supplies</i>.—Grain for men and animals of 2 battalions for 1 week. Oxen 20; sheep 30; goats 20. Vegetables according to season.</p>
COLLECTOR OF SOUTH ARCOT, CUDDALORE.		GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p>35</p> <p>334 m. 2 f.</p> <p>KILIANUR.—15 m. 0 f. Gravelled road, fit for motors. Country all cultivation.</p> <p>11 m. Katrampakamodai river, unbridged, fordable. 14 m. Kiliyanurodai river, unbridged, fordable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5.
Civil.	Milit- tary.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	36	<p><i>Camping-ground.</i>—4 acres W. of village. <i>Water.</i>—2 tanks for 1,000 men and animals. <i>Fuel and Fodder.</i>—Nil. <i>Supplies.</i>—For 500 men for 1 day.</p>
		345 m. 3 f.	<p>TINDIVANAM.—11 m. 1 f. Metalled road, fit <i>p. t. r. b.</i> (6,400). for motors. Country cultivated. On main Route No. V, 5½ m. from Saram to N. Route No. 36 crosses here. At 2 m. cross Kondamur river, 90', bridged. 7 m. Molasur (1,200). <i>Camping-ground.</i>—8 acres E. of town. <i>Water.</i>—1 tank, 5,000 men and animals. <i>Fuel.</i>—300 tons stacked. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Grain for 5,000 men and animals for 1 week. Oxen 500; sheep 200; goats 300. Vegetables for 1,000 men for 1 day.</p>

ROUTE No. 5 (1).

FROM KULATHUR TO SRIVILLIPUTTUR.

Length.—58 m. 3 f.

5 stages.

Epitome.—Road metalled and partly unbridged but fair at all seasons as far as Nagalapuram, 6 m. before Tapathi, thence a fair weather track to Satur; remainder of road is metalled and bridged and practicable at all seasons.

Direction.—North-West-North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (1).	
Civil.	Military.			
COLLECTOR OF TINNEVELLY, PALAMCOTTAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		KULATHUR.— <i>p.</i>	
		1	VELATHIKOLAM.—9 m. 3 f. Cross the Vaipar river, unbridged.	
		9 m. 3 f.	TAPATHI.—14 m. 0 f.	
		2		
		23 m. 3 f.	SATTUR.—10 m. 0 f. <i>b. p. t. r.</i>	
		3		
		33 m. 3 f.	SIVAKASI.—12 m. 0 f. <i>p. t.</i>	
		4		
		45 m. 3 f.	SRIVILLIPUTTUR.—13 m. 0 f. <i>b. p. t.</i>	
		5		
		58 m. 3 f.		

ROUTE No. 5 (2).

FROM SAYALGUDY TO KARIAPATI.

Length.—48 m. 4 f.

4 stages.

Epitome.—As far as Tiruchulai there is a fair-weather track; beyond that the road is bridged and gravelled and may be said to be practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (2).
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		..	SAYALGUDY.—On Route No. 5.
		1	PAPANKOLAM.—16 m. 6 f.
		16 m. 6 f.	
		2	MANDELMANIKAM.—7 m. 6 f.
		24 m. 4 f.	
		3	TIRUCHULAL.—11 m. 0 f. Cross the Gundar river, unbridged, twice.
		35 m. 4 f.	
		4	KARIAPATI.—13 m. 0 f.
		48 m. 4 f.	

ROUTE No. 5 (3).

FROM KUDDUGUSHUNDAY TO TIRUPATUR.

Road gravelled for about 15 m.; then metalled.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (3).
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		..	KUDDUGUSHUNDAY.—On Route No. 5.
		1 27 m. 4 f.	MANA MADURA.—27 m. 4 f. <i>Vide</i> Route No. 6, stage No. 8. Cross three rivers, unbridged.
		2 38 m. 4 f.	SIVAGANGA.—11 m. 0 f. <i>b. p. t.</i> Cross the Vaigai river, unbridged, but practicable at all times.
		3 60 m. 4 f.	TIRUPATUR.—22 m. 0 f. <i>p. t.</i> <i>Vide</i> Route No. 7, stage No. 8.

ROUTE No. 5 (4).

FROM TONDI TO MADURA BY SHIVAGANGA.

Length.—69 m. 1 f.

7 stages.

Epitome—This road is metalled and all small streams throughout are bridged. The Vaigai river, which is unbridged, is impassable for carts during heavy freshets; these, as a rule, occur two or three times in each year and last for a week; otherwise the road may be said to be practicable at all seasons.

Direction.—West by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (4).	
Civil.	Military.			
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			TONDI.—	Camping-ground west of village. Water, 4 tanks.
		1	b. p. t.	
		8 m.	TIRUVARANI—8 m. 0 f.	Camping-ground west of village. Tank.
		2		
		18 m. 2 f.	TIRUVEGAMPET.—10 m. 2 f.	Country flat and cultivated. Camping-ground west and on both sides of the road; a tank east and west; many tanks on the road.
		3		
		30 m. 0 f.	KALIARKOIL.—11 m. 6 f.	Country flat and cultivated. Camping-ground east and west. A tank east.
		4		
		41 m. 4 f.	SIVAGANGA.—11 m. 4 f.	Country flat, with small jungle. Camping-ground east and west. Many tanks by the way.
			b., p. t.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (4).
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	5	PADDAMATUR.—8 m. 2 f. Country flat and jungly. Camp-ing-ground N.W. of village. Many tanks on the road.
		49 m. 6 f.	
		6	MANALUR.—11 m. 4½ f. Country flat, open p. and cultivated. Camping-ground N.E. of village. Water from the Vagai and tanks. Cross the Vagai river, un-bridged.
		61 m. 2½ f.	
		7	MADURA.—7 m. 6½ f. Vide Main Route b. p. t. r. No. V, stage No. 8. Road made and through an avenue. Country flat and open.
		69 m. 1 f.	

ROUTE No. 5 (5).

FROM SUNDARAPANDYAPATNAM TO ARANTANGI.

Cross three unbridged streams—the Pambar, Koluvar and Valley; a fair-weather track only.

Direction.—North-North-West.

COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	SUNDARAPANDYAPATNAM.—The road for 1 m. only from this place belongs to the Madura district, the remainder being in the Tanjore district.
		1 30 m. 0 f.	ARANTANGI.—30 m. 0 f. b. p. t.

ROUTE No. 5 (6).

FROM TOGATUR TO MAYAVARAM.

Length.—53 m. 2 f.

5 stages.

Epitome.—Up to Tiruturaipundi the road is an earthen one and passes through a richly cultivated country intersected by numerous bridged streams, thence it is gravelled up to within about 18 m. of Mayavaram, whence the road is earthen. Practicable at all seasons.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (6.)
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		TOGATUR.—
		1	TIRUTURAI PUNDI.—10 m. 0 f. Cross a
		10 m. 0 f.	b., p., t. stream, unbridged.
			CHANDRANADI BRIDGE.—8 m. 6 f.
		18 m. 6 f.	
		3	TIRUVÁLŪR.—9 m. 2 f. Railway Station.
		28 m.	b. p. t. r. Camping ground enough for half a regiment. Water good and near.
		4	PERALAM.—14 m. 6 f. Railway Station.
		42 m. 6 f.	p., t. r. Ground cultivated all round. Water-supply bad. No supplies.
		5	MAYAVARAM.—10 m. 4 f. Headquarters of a Deputy Col-lector. Water-supply from Cauvery river, wells and tanks. A municipality. Hospital. Supplies available
		53 m. 2 f.	

ROUTE No. 5 (7).

FROM NAGORE TO PAPANASAM.

Length.—40 m. $2\frac{1}{4}$ f.

3 stages.

A sanded road in good order but a little soft in the rainy season.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance	ROUTE NO. 5 (7).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	NAGORE.—On Route No. 5. <i>p. t. r.</i>
		1	KANKALANJERI.—13 m. $2\frac{1}{4}$ f. <i>r.</i>
		13 m. $2\frac{1}{4}$ f. 2	VALANGAMAN.—18 m. 0 f. <i>p.</i>
		31 m. $2\frac{1}{4}$ f. 3	PAPANASAM.—9 m. 0 f. <i>Vide</i> Route No. 8, <i>p. t.</i> stage No. 6.
		40 m. $2\frac{1}{4}$ f.	

ROUTE No. 5 (8).

FROM NAGORE TO KUMBAKONAM.

Direction.—West.

COLLECTOR OF TANJORE, TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	NAGORE.— <i>p. t. r.</i>
		1	NANNILAM.—17 m. 5 f. <i>p. t.</i>
		17 m. 5 f. 2	KUMBAKONAM.—18 m. 0 f. <i>Vide</i> Route <i>b. p. t. r.</i> No. 8, stage No. 7.
		35 m. 5 f.	

ROUTE No. 5 (9).
FROM KARIKAL TO TRICHINOPOLY.

Length.—91 m.

6 stages.

Epitome.—Road gravelled, except for about 5 m. beyond Tiruvadi.

Direction.—West-South-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (9).
Civil.	Military.		
FRENCH TERRITORY. COLLECTOR OF TANJORE, TANJORE. COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		..	KARIKAL.— <i>p. t. r.</i>
		1	KUMBAKONAM.—37 m. 7 f. <i>Vide</i> Route No. 8; <i>b. p. t. r.</i> stage No. 7.
		37 m. 7 f. 2	KAPISTALAM.—9 m. 1 f. Road heavy. <i>b.</i> Camping ground, confined, near the bungalow, west of the town. Water from the river and from a well in the bungalow compound. The river runs parallel to the road. No supplies.
		47 m. 0 f.	TIRUVADI.—11 m. 4 f. <i>Vide</i> Route No. 20, <i>b. p. t.</i> stage No. 8. River to south parallel to the road, which is good and shaded by trees. Local Fund dispensary.
		3	PUDUCHATTRAM.—11 m. 3 f. Road good. Country richly cultivated. Water from river. Still parallel to the river, 2 m. off, is Tirucattupalle, a large village with a post office and dispensary.
		58 m. 4 f.	GRAND ANICUT.—9 m. 5 f. Ground high. <i>t.</i> There is no camping-ground.
		4	TRICHINOPOLY.—11 m. 4 f. <i>Vide</i> Main <i>b. p. t. r.</i> Route No. V, stage No. 16.
		69 m. 7 f.	
		5	
		79 m. 4 f. 6	
		91 m. 0 f.	

ROUTE No. 5 (10).

FROM KARIKAL TO TIRUPANANDAL.

Epitome.—This road goes northwards to Porayar, through French territory, then turns north-west to Tirupanandal. In the Tanjore district, it is earthen but passable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (10).
Civil.	Military.		
COLLECTOR OF FRENCH TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KARIKAL.— <i>p. t. r.</i>
		1	ADUTHURAI.—27 m. 0f. <i>p. t. r.</i> Between Kumbakonam and Tiruvallangadu.
		27 m. 0f.	
		2	TIRUPANANDAL.—6 m. 0f. <i>p.</i>
		33 m. 0f.	

ROUTE No. 5 (11).

FROM SHIYALI TO PANAGATANGUDI.

A sanded road, in fair order.

Direction.—West.

COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	SHIYALI.— <i>b. p. t. r.</i>
		1	PANAGATANGUDI.—7 m. 0f.
		7 m. 0f.	

ROUTE No. 5 (12).

FROM PUTTUR TO PUDUPATNAM.

A sanded road, in fair order.

Direction.—East by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (12).
Civil.	Military.		
COLLECTOR OF TANJORE. TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PUTTUR.— <i>p.</i>
		1	PUDUPATNAM.—9 m. 0f. On the Coast.
		9 m 0f.	

ROUTE No. 5 (13).

FROM ANAIKARA CHATTRAM TO VIRUDACHALAM,

Road gravelled, practicable at all seasons.

Direction.—West by North.

COLLECTOR OF SOUTH COLLR. OF ARCOT, CUDDALORE. TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	ANAIKARA CHATTRAM.— <i>p.</i>
		1	BHUVANAGIRI.—4 m. 4 f. <i>p. t.</i>
		4m. 4f. 2	NORTH BANK OF VELLAR RIVER.— 0f- <i>m.</i>
		13 m. 4 f. 3	VIRUDACHALAM.—17 m. 5½ f.
		31 m. 1½ f.	

ROUTE No. 5 (14).

FROM PUDUCHATTRAM TO PORTONOVO.

Gravelled, practicable at all seasons.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (14).
Civil.	Military.		
COLLECTOR OF SOUTH ARCOI, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PUDUCHATTRAM.—
		1	PORTO NOVO 4 m. 0 f.
		4 m. 0 f.	p. t.

ROUTE No. 5 (15).

FROM SHONAGAN'S CHOULTRY TO KULLAN'S
CHOULTRY.

Direction.—West.

COLLECTOR OF SOUTH ARCOI, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	SHONAGAN'S CHOULTRY.—
		1	KULLAN'S CHOULTRY.—4 m. 4 f.
		4 m. 4 f.	b.

ROUTE No. 5 (16).

FROM CUDDALORE TO KANDAMANGALAM.

Cross the Mallatur, Pennar and Gudulam rivers, unbridged.
Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 5 (16).
Civil.	Military.		
COLLECTORS OF SOUTH ARCOI, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	CUDDALORE.— <i>b. p. t. r.</i>
		1	KANDAMANGALAM.—10 m. Of.
		10 m. 0f.	<i>p.</i>

ROUTE No. 5 (17).

FROM PONDICHERRY TO MARKANAM.

Gravelled and practicable at all seasons.
Direction.—North by East.

COLLECTOR OF SOUTH ARCOI, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PONDICHERRY. (<i>French territory</i>).— <i>b. p. t. r.</i>
		1	MARKANUM.—19 m. 7 f.
		19 m. 7 f.	<i>b. p.</i>

ROUTE NO. 6.

FROM RAMESVARAM TO VANIYAMBADI.

Length.—331 m. 5½ f.

32 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan 1911.

Epitome.—Direction N.-W. and N. The road is metalled or gravelled practically throughout, fit for motors in parts only. As far as Dindigul it is bridged but with the exception of the Vaigai, Amravati Upar, and Pennar rivers, heavy floods in which occur two or three times in each rainy season and render it impassable for a week or so. The Pamban Channel, 4 m. wide, is crossed by boats of about 10 tons. From Dindigul to Namakal all the smaller streams are bridged; the larger streams, which are unbridged, are fordable except after heavy rain; crossing is then impracticable for 3 or 4 days at a time. The boats on the Cauvery are made of wicker work and hides, and will carry 15 to 20 persons or one ton of goods; two always available on each bank; twelve or fourteen more procurable at 3 days' notice. From Namakal to Salem it is bridged, and thence to Vaniyambadi the road is always practicable, although several unbridged rivers and streams have to be crossed. The Manjavadi Hill, 4 m. long, offers no obstacle to traffic, the gradients being easy.

AUTHORITIES.		No. of stage and total distance.	<div style="text-align: center;">ROUTE NO. 6.</div>
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	Initial stage.	<p>RAMESVARAM.—Cable for Ceylon leaves <i>b. p. t. r.</i> India here.</p> <p><i>Camping-ground.</i>—250 acres S. of town; additional space 400 acres.</p> <p><i>Water.</i>—For 8,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—Cut, nil.</p> <p><i>Fodder.</i>—Grazing, about 200 acres, ½ m. N. of town for about 400 animals.</p> <p><i>Supplies.</i>—Grain for 500 men and 50 animals for 3 days. Goats 100. Vegetables for 300 men.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	1	PAMBAN.—7 m. 5 f. Metalled road, bad <i>b. p. t. r.</i> repair, fit for wheeled (3,230). transport. Country open, jungly. Ferry over the channel crossed by railway bridge. <i>Camping-ground</i> .—30 acres E. of village. <i>Water</i> .—Tank and wells for 1,000 men and animals. <i>Fuel</i> .—Abundant. <i>Fodder and Supplies</i> .—Nil.
		7m. 5f.	
		2	MANDAPAM.—6 m. 0 f. No road. A small fish- ing village. Cross Pamban channel by a viaduct. <i>Camping-ground</i> .—300 acres W. of village. <i>Water</i> .—From 10 wells for 10,000 men; fresh water can be obtained by digging. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—100 acres grazing within 4 m. <i>Supplies</i> .—Fish only.
		13m. 5f.	
		3	UCHIPULLI.—10 m. 4 f. Cart track; only passable in dry weather. Country flat and covered with palmyra trees. At 3 m. village (663) <i>Camping-ground</i> .—300 acres N.-E. of village. <i>Water</i> .—For 2,000 men and animals, by digging. <i>Fuel</i> .—Abundant. <i>Fodder</i> .—300 acres grazing except October to January. <i>Supplies</i> .—Nil.
		24m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	4	RAMNAD.—13 m. 5 f. Abandoned track. Country, paddy fields. <i>Vide</i> Route No. 5, stage No. 12.
		37m. 5f.	
		5	POGALUR.—10 m. 0f. Metalled and gravelled road, poor repair, fit for all transport. Country cultivated. At 3 m. stream, 15', bridged, fordable. 7 m. Effiyal (450). <i>Camping-ground</i> .—Nil. <i>Water</i> .—2 tanks and 4 wells, for 500 men and 100 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing in rains only. <i>Supplies</i> .—Grain <i>nil</i> . Oxen 400; sheep 600; goats 500.
		47m. 5f.	
		6	PERMAGUDI.—13 m. 0f. Metalled and gravelled road, fit for motors in dry weather. Country cultivated. 2½ m. Kilakottai (300). 5 m. Tiruvadi (150). 6 m. Manjoor (800). 9 m. Arianendal (940). <i>Camping-ground</i> .—10 acres S. E. of village. <i>Water</i> .—From river 250 yards wide, for 10,000 men and 1,000 animals. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain <i>nil</i> . Oxen 400; sheep 500; goats 200. Vegetables <i>nil</i> .
		60m. 5f.	

AUTHORITIES.		No of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		7	PUDUKOTA.—6m. 0f. Metalled and gravelled road, fit for motors in dry weather.
		66m. 5f.	Country cultivated. Cross the Vagai river at 3 m., unbridged, 220 yds., fordable except for 2 or 3 days in the year. 1 m. Kuruchi (600). 2½ m. Kachathanallor (540). 3 m. Tihechanallur (550). 4½ m. Kattaparanagudi (1,200). <i>Camping-ground</i> .—50 acres, between two tanks and river. <i>Water</i> .—For 10,000 men and 1,000 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Only oxen 500; sheep 1,000.
		8	MANA MADURA.—9 m. 0f. Metalled road, in moderate repair, fit for motors in dry weather. Country cultivated. 4½ m. Sandanoor (2,000). <i>Camping-ground</i> .—2 square m. E. of village. <i>Water</i> .—From river 250 yds. wide. <i>Fuel</i> .—Cut, 1 ton. <i>Fodder</i> .—Grazing for 200 animals near. <i>Supplies</i> .—Grain for 100 men and animals; Oxen 10; sheep 20; goats 20. Vegetables obtainable.
		9	METTANENDAL.—7 m. 0f. Metalled road, in good repair, fit for motors. Country cultivated. Cross the Vaigai river, unbridged, 250 yds. wide. River is usually fordable; 3 boats, taking 25 men each, available.
		82m. 5f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>2 m. village (150). 3 m. Rajagamhiran (3,000). 4 m. village (400). <i>Camping-ground.</i>—Nil. <i>Water.</i>—From river for 100, men and animals. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing for 50 animals. <i>Supplies.</i>—Nil.</p>
		10	<p>TIRUPUVANAM.—11 m. <i>Of.</i> Metalled road, fit <i>p. t. r.</i> (6150). for motors. Coun- try cultivated. 1 m. village (150). 2½ m. village (250). 4 m. village (2,400). <i>Camping-ground.</i>—½ sq. m. E. of village. <i>Water.</i>—From wells dug in river bed. <i>Fuel and Fodder.</i>—Nil. <i>Supplies.</i>—Sheep 100. Vegetables available.</p>
		93m. 5f.	
		11	<p>MADURA.—12 m. <i>Of.</i> <i>Vide</i> Main Route No. V, <i>b. p. t. r.</i> Stage No. 8. Road metalled and fit for motors.</p>
		105m. 5f.	
		12	<p>SHOLAVANDAN.—13 m. 4½ f. Metalled road; <i>p. r. t.</i> (4,390). fit for motors throughout; count- ry cultivated. 3 m. Thovaniman (1,509). 6 m. Kilamathur (892). 7 m. Melamathur- (505). 8 m. Kodimangalam (1,500). 10 m. Melakhal (2,040). Cross Vagai river, ford- able except in rains. 11 m. Tiruvetagam (1,665). Alternative Route <i>via</i> Nagari, fit for wheeled traffic. <i>Camping-ground.</i>—185 acres N. of village. Additional space, 93 acres.</p>
		119m. 1½f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—From Vagai river, for 500 men and animals.</p> <p><i>Fuel</i>.—2 cartloads.</p> <p><i>Supplies</i>.—Only 10 sheep; 30 goats and vegetables on market days (Friday).</p>
		13	AMMAYANAYAKANUR.—12m. 1f. Gravelled b. p. t. r. road, unfit for motors. Country cultivated. Railway Station. At this point travellers for the Palni Hills, High Range and Preiyar leave the Railway. 8 m. Nachikulam. 8 m. 1 f. pass Pallapatti.
		131m. 2½f.	<p><i>Camping-ground</i>.—1,000 acres when uncultivated.</p> <p><i>Water</i>.—From 5 wells, unlimited supply.</p> <p><i>Fuel</i>.—4 cartloads.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 1,000 men, 300 oxen and 50 horses for 3 days. Sheep 50; goats 50. Vegetables scarce.</p>
		14	DINDIGUL.—14 m. 4 f. Metalled road, fit for b. p. t. r. motors, good repair. (25,000). An important civil station, with an old hill fort. Country flat and open. Railway Station on South Indian Railway. Routes Nos. 9 and 11 cross and No. 28 joins here. 6 m. Ambashurai (6,320).
		145m. 6½.	<p><i>Camping-ground</i>.—25 acres W. of town.</p> <p><i>Water</i>.—(Scarce in rains) for 2,000 men and 200 animals.</p> <p><i>Fuel</i>.—10 tons.</p> <p><i>Grazing</i>.—10 acres for 100 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
[Civil.]	Millitary.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<i>Supplies.</i> —Grain for 5,000 men and animals for 1 week. Oxen 60; sheep 100; goats 100. Vegetables very scarce.
		15	
		158 m. 6½.	ERRIODE.—13m. 0f. Road metalled, but not fit for motors. Country cultivated. 4 m. Scelpandy (2,230). 6 m. Kulathur (1,790). Stream, 100', fordable. 9 m. stream, 50, fordable; Nallamanacottai (2,230). Cross the Kodavenal river, unbridged. <i>Camping-ground.</i> —No waste land available, but dry cultivated land can be used on payment of compensation while crops are on the ground. <i>Water.</i> —For 500 men and animals from wells. <i>Fuel and Fodder.</i> —Nil. <i>Supplies.</i> —Local grain for 300 men for 2 days. Oxen 50; sheep 50; goats 50. Vegetables nil.
		16	
COLLECTOR OF MADURAI, MADURAI.		171 m. 2½ f.	GUCHALANPARAI.—12 m. 4 f. Road for 6 m. metalled; gravelled road for 6½ m. Country cultivated. 6m. Kovilur (240). 6½ m. stream, 300', fordable. 9 m. Pullian Patti. <i>Camping-ground.</i> —On cultivated land only. <i>Water.</i> —2 wells, for 200 men and 100 animals for 2 days. <i>Fuel and Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 300 men and 200 animals for 2 days. Oxen 25; sheep 50; goats 50.
		17	
		182 m. 2½ f.	VELLYANAI.—11 m. 0f. Road metalled and gravelled, fit for wheeled traffic. Cross 3 streams, bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>9 m. Pachampatta. 9½ m. Lakshmanpatta. <i>Camping-ground.</i>—Good. <i>Water.</i>—For 1,000 men and animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing for 1,000 animals, 3 m. from town. <i>Supplies.</i>—Grain for 500 men and 100 animals for 7 days. Oxen nil; sheep 100; goats 100. Vegetables available.</p>
		18	
		191 m. 2½ f.	<p>KARUR.—9 m. 0 f. Gravelled road, fit for <i>b. p. t. r.</i> wheeled traffic only. (11,730). Country cultivated. 8 m. cross the Amravati river, unbridged, 330 yds., fordable except in rains, 4 boats for 30 men each available; crossed just before Karur. Route No. 14 crosses, and Nos. 16 and 18 join here. 4 m. <i>nala</i>, 100', brick bridge. 5 m. Vaga- kanpatti. 7 m. Malaipatti. 8 m. Tirumana- lavar. <i>Camping-ground.</i>—Good; can be had S. of town. <i>Water.</i>—Unlimited supply available. <i>Fuel.</i>—20 cart loads, cut. <i>Fodder.</i>—Grazing for 1,000 animals on river bank. <i>Supplies.</i>—Grain for 10,000 men and animals. Sheep 30; goats 20 daily. Vegetables scarce.</p>
		19	
		198 m. 2½ f.	<p>VANGAL.—7 m. 0 f. Road metalled, fit for wheeled traffic. (580). Country cultivated. 3½ m. Man Mangalam (500). 6 m. Vangal Paghaiyur (600). <i>Camping-ground.</i>—High and good, S. of village.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	20	<p><i>Water</i>.—From 7 wells for 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—100 acres grazing, 2 m. away.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 300 animals for 3 days. Oxen nil; sheep 100; goats 100. Vegetables scarce.</p>
		200 m. 7½ f.	<p>MOHANUR.—2 m. 5 f. Road metalled, fit for wheeled traffic. Country cultivated.</p> <p>½ m. cross the Couvery river, unbridged, 1 m. broad, fordable except in flood, when crossed by 8 coracles for 3 men each.</p> <p><i>Camping-ground</i>.—W. of village, 5 acres.</p> <p><i>Water</i>.—Unlimited supply from sandy bed of river, 1 m. N. of village.</p> <p><i>Fuel</i>.—Large quantities obtainable with notice.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 500 men and 50 animals for 3 days. Sheep 5; goats 5.</p>
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	21	<p>NAMAKAL.—12 m. 0 f. Road unfit for motors, b. p. t. metalled. Country open, rocky, with cultivation.</p> <p>3 m. Ariyur (2,250). 8 m. Pudur (1,330). 11 m. Kondi (790). At 3 m. cross the Upur river, always fordable.</p> <p><i>Camping-ground</i>.—6¾ acres S. of village.</p> <p><i>Water</i>.—From a tank, ½ m. S. of bungalow for 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—15 tons.</p> <p><i>Supplies</i>.—Grain for 500 men and 100 animals for 2 days. Sheep and goats scarce. Vegetables for 200 men.</p>
		212 m. 7½ m.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		22	MANUCHAVADI.—13 m. 5 f. Metalled road, fit for motors.
		226 m. 4½ f.	Cultivation and rocky jungle alternately. Cross 6 streams, bridged. At 9 m. Kalangani (1,880). 12½ m. Perduchatram (4,600).
		23	MALLUR.—9 m. 5 f. Metalled road, fit for motors. Country open and partly cultivated.
		236 m. 1½ f.	Route No. 32 is crossed in this stage. At 4½ m. pass Razipur on E. of road. <i>Camping-ground</i> .—About 10 acres E. of road and 5 acres in addition. <i>Water</i> .—From wells for 500 men and 200 animals in normal years. <i>Fuel</i> .—Can be cut from Government lands. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 1,000 men at a week's notice. Oxen 260; sheep 70; goats 23. Vegetables in fairly large quantities on Thursdays.
		24	SALEM.—8m. 2f. Metalled road, fit for motors. Madras and Southern Mahratta
		244 m. 3½ f.	Railway Station is at a distance of 3½ m. from the town.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>Route No. 13 joins and No. 19 crosses here.</p> <p><i>Camping-ground</i>.—High, but not good; 5 acres S.-E. of Karipatti stream.</p> <p><i>Water</i>.—300 men and 200 animals at all seasons.</p> <p><i>Supplies</i>.—Unlimited at 4 hours' notice.</p>
		25	<p>KUPPANUR.—11 m. 3 f.—Gravelled road, fit (653). for motors, leads through hills; easy ascents and descents. Country high with thick bamboo jungle. Cross a stream, unbridged.</p> <p><i>Camping-ground</i>.—About 5 acres.</p> <p><i>Water</i>.—300 men and animals during rainy season.</p> <p><i>Fuel</i>.—Can be cut near the village.</p> <p><i>Fodder</i>.—Grazing for 200 animals.</p> <p><i>Supplies</i>.—As required, can be had from Salem at 6 hours' notice.</p>
		255 m. 6½ f.	
		26	<p>PEDDA MANJAVADI.: 7 m. 7 f. Road metalled, fit for motors. Country open at beginning and end of stage, but hilly immediately. The jungle is high, but not thick. 6 m. Kombur (551). Cross the Manjavadi Hill.</p> <p><i>Camping-ground</i>.—About 7-14 acres W. of village; additional about 28 acres in reserved forest.</p> <p><i>Water</i>.—For 500 men and animals from the Penna river W. of village.</p> <p><i>Fuel</i>.—Up to 20 tons can be had from Forest Range Officer of Papireddipatti.</p> <p><i>Fodder</i>.—34 acres grazing for 2 days.</p> <p><i>Supplies</i>.—Oxen 77; sheep 49. Vegetables up to 20 maunds from Papireddipatti.</p>
		263 m. 5½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		27	PALLIPPATTL.—8 m. 2f. Metalled road, fit for motors. Country confined for a mile, thence at first open and afterwards gently undulating, covered with thin jungle.
		272 m. 7½ f.	<i>Camping-ground</i> .—8·64 acres E. of village; additional space in reserved forests 1 and 1½ m. from village. <i>Water</i> .—For 150 men and 100 animals also from Periar river in rains. <i>Fuel</i> .—From Forest Reserve at Papireddipalli. <i>Fodder</i> .—Grazing for 500 animals in Forest Reserve, 1½ m. from village. <i>Supplies</i> .—For 2 days for 150 men and 70 animals. Oxen 15; sheep 20; goats 10. Vegetables from outlying village.
		28	HARUR.—9 m. 0 f. Metalled road, fit for motors. <i>Nalas</i> bridged. Country undulating and fairly well cultivated. Cross the Kalar river, bridged, and 2 streams bridged. ¼ m. Irulapatti (790). 6 m. Chinnan Kuppam (415).
		281 m. 7½ f.	<i>Camping-ground</i> .—6 acres N.-E. of village; additional 2 acres near market. <i>Water</i> .—From Vaniyar river. <i>Fuel</i> .—15 tons; and can be obtained from Forest Reserve. <i>Fodder</i> .—Grazing for 300 animals on river bank ½ m. from village. <i>Supplies</i> .—Grain for 500 men and 300 animals for 10 days, Oxen 250; sheep 1,000; goats 400. Vegetables 50 lbs.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	29	HANUMATERTAM.—10m. 6f. Metalled road, fit for motors. This is a deserted village on the left bank of the Pennar. Country open and cultivated. 4 m. Echamhody (153). 5½ m. Vekrapatti (365). 8 m. Kongavemha (218). 10½ m. Ittapatti (40). <i>Camping-ground.</i> —11·20 acres round village. <i>Water.</i> —From the Pennar river, constant. <i>Fuel.</i> —Can be cut. <i>Fodder.</i> —Grazing about 50 acres; ½ m. N. for 800 animals. <i>Supplies.</i> —Sheep 500; goats 500; oxen 200 (with notice).
		292 m. 5½ f.	
		30	WOMIANUR.—11 m. 0 f. Metalled road, fit (128). for motors. Country for 4 m. open, flat and cultivated, thence undulating. A stream runs along the left of the road nearly the whole way. Route No. 33 is crossed in this stage at Uttankarai. 1½ m. Katten (210). 2½ m. Veppamlampatti (140). 5 m. Thippampatti (25). 6½ m. Uttankarai (1,250). 8 m. Thandiyamappanur (300). 9 m. Up-parapatti (300). 11 m. Womionur river, unbridged, fordable, except in high flood.
		303 m. 5½ f.	<i>Camping-ground.</i> —On S. of river, on left of road. <i>Water.</i> —From Pennar river, for 2,000 men and animals. <i>Fuel.</i> — } <i>Fodder.</i> — } Nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<i>Supplies.</i> —None available, but can be obtained by contract; 200 oxen; 200 sheep; 300 goats. Vegetables as required.
		31	TIRUPATUR.—14 m. 0 f. Metalled road, fit for <i>p. t. r.</i> (20,400). Stream generally fordable, cross 7 streams, bridged. 3 m. Chinnaveppambatta (738). 4 m. Kalundra. 9 m. Kodiyur (2,070).
		317 m. 5½ f.	<i>Camping-ground.</i> —1.2 acres N. of town; also large vacant spaces close by. <i>Water.</i> —For 10,000 men and 500 animals. <i>Fuel.</i> —About 5,000 tons always ready. <i>Fodder.</i> —Grazing: about 1,000 acres within 2 m., sufficient for 2,000 animals. <i>Supplies.</i> —10,000 men and 5,000 animals daily (grain). Oxen 200; sheep 500; goats 1,000. Vegetables: 1,000 lbs.
		32	VANIYAMBADI.—14 m. 10 f. <i>Vide</i> Main Route <i>p. t. r.</i> No. IV, stage No. 11. Metalled road, fit for motors. Cross 2 streams, bridged. Country cultivated. 2 m. Kavapattu. 4 m. Kuramandupatti. 5 m. 5 m. Aruvaputhi, 6 m. Thoranainpatti, } (1,440) 7 m. Komarainpatti 8 m. Koratti (743). 12 m. Adiyur (3,140).
		331 m. 5½ f.	

ROUTE No. 6 (1).

FROM TIRUCHULAI TO MELUR.

Length.—36 m. 4f.

2 stages.

A fair-weather track till a little beyond Tirupuvanam; thence metalled and bridged; practicable at all seasons.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (1).
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	TIRUCHULAI.—A fair-sized village; good water-supply from river, tanks and well. Camping-ground high.
		20 m. 4f. 2	TIRUPUVANAM.—20 m. 4 f. <i>p.t.r.</i>
		36 m. 4 f.	MELUR.—16 m. 0f. Cross the Vaigai river, <i>b.p.t.</i> unbridged.

ROUTE No. 6 (2).

FROM AMMAYANAYAKANUR RAILWAY STATION TO PALKANUTH.

Road metalled and bridged; practicable at all seasons.

Direction.—North-North-West.

COLLECTOR OF MADURA, MADURA.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	AMMAYANAYAKANUR— RAILWAY STATION. <i>r.</i>
		9 m. 0f. 2	SHEMPATL.—9 m. 0 f.
		24 m. 0f.	PALKANUTH.—15 m. 0 f.

ROUTE No. 6 (3).

FROM DINDIGUL TO PALLADAM.

Length.—79 m. 5 f.

3 stages.

Epitome.—Cross the Manjari, Kodara and Amravati rivers; unbridged. As far as Dharapuram, this road is metalled, except in some places, where at present it is a mere track, impracticable in rainy season. The country is rather wild and supplies scarce. The rivers are large and fordable only in the dry seasons; thence to Palladam, the road is metalled and bridged almost throughout, and practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (3).	
Civil.	Military.			
COLLECTOR OF COIMBATORE, COIMBATORE.	COLLECTOR OF MADURAI, MADURAI.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	DINDIGUL— <i>b.p.t.r.</i>	
			1	YEDDIYAKOTA.—27 m. 0 f.
			27 m. 0 f.	
			2	DHARAPURAM.—24 m. 5 f.
			51 m. 5 f.	<i>b.p.t.</i>
			3	PALLADAM.—23 m. 0 f. Cross the Amravati river, unbridged.
			79 m. 5 f.	<i>b.p.t.</i>

ROUTE No. 6 (4).

FROM KARUR TO PUGALUR.

Epitome.—A good road, metalled, but not bridged, practicable at all seasons; at the 11th mile there is a branch road south-west to Pugalur railway station, 3 miles.

Direction.—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (4).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KARUR.— <i>b.p.t.r.</i>
		1	PUGALUR.—13 m. 3 f. <i>p.r.</i>
		13 m. 3 f.	

ROUTE No. 6 (5).

FROM KARUR TO NERUR.

Metalled and bridged, practicable at all seasons. A ford over the Cauvery at Nerur.

Direction.—North-East.

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		KARUR.— <i>b.p.t.r.</i>
		1	NERUR.—6 m. 7 f. <i>p.</i>
		6 m. 7 f.	

ROUTE No. 6 (6).

FROM MOHANUR TO TIRUCHENGOD.

Cross the Tirumani river, unbridged. Road partly metalled and bridged, practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (6).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. G. O. C., MADRAS DISTRICT, WELLINGTON.		..	MOHANUR.—
		1	<i>p.</i> PARAMATTI.—13 m. 0 f.
		13 m. 0 f. 2	<i>p.</i> CHITLANDUR.—10 m. 0 f.
		23 m. 0 f. 3	TIRUCHENGOD.—9 m. 2 f. <i>p.l.</i>
		32 m. 2 f.	

ROUTE No. 6 (7).

FROM MOHANUR TO VALAYAPPATTI.

Cross one stream 2 m. before Valayappatti; it is dry except in the rainy season. Road partially bridged and metalled, practicable at all seasons.

Direction.—North-East.

COLLECTOR OF SALEM, SALEM. G. O. C., MADRAS DISTRICT, WELLINGTON.	..	MOHANUR.—
	1	<i>p.</i> VALAYAPPATTI.—8 m. 6 f.
	8 m. 6 f.	<i>b.p.</i>

ROUTE No. 6 (8).

FROM SATTAIYANGARPETTAI TO NAMAKAL.

Partly metalled and bridged, practicable at all seasons.

Direction.—West-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (8).
Civil.	Mili- tary.		
COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	SATTAIYANGARPETTAI.
		1	NAMAKAL.—21 m. 0 f.
		21 m. 0 f.	<i>b. p. t.</i>

ROUTE No. 6 (9).

FROM IRUMAIPATTI TO NYNAMALAI.

Partially metalled, but not practicable during the rainy season.

Direction.—North-West.

COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	IRUMAIPATTI.
		1	SENDAMANGALAM.— <i>p.</i>
		2	NYNAMALAI.—11 m. 4 f.

ROUTE No. 6 (10).

FROM NAMAKAL TO KONERIPPATTI.

A fair-weather road, practicable at all seasons.

Direction.—North-North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (10).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. G. O. C. MADRAS DISTRICT, G. O. C. WELLINGTON.		..	NAMAKAL.— <i>b. p. t.</i>
		1	SENDAMANGALAM.— <i>p.</i>
		2	BELUKURICHI.— <i>p.</i>
		3	KONERIPPATTI.—12 <i>m. 6f.</i> ROUTE No. 6 (11).

FROM SENDAMAGALAM TO KELLIMALAI HILLS.

Partially metalled, practicable at all seasons.

Direction.—East.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		SENDAMANGALAM.— <i>p.</i>
		1	FOOT OF KELLIMALAI HILLS.— 3 <i>m. 7 f.</i>
		<hr/> 3 <i>m. 7 f.</i>	

ROUTE No. 6 (12).

FROM MASKALIPATTI TO EDAPADI.

Road partially metalled and bridged and practicable in the dry season only, as far as McDonald's Choultry; thence gravelled and practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (12).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	MASKALIPATTI.—
		1	ATTIYAMPATTI.—
		2	MACDONALD'S ..10 m. 7f. Cross a river and stream, unbridged.
		3	EDAPADI.—10 m. 4f.

ROUTE No. 6 (13).

FROM SALEM TO NANGAVELLI.

Road gravelled and practicable at all seasons.

Direction.—West-North-West.

COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	SALEM.— <i>b. p. t. r.</i>
		1	SALEM RAILWAY ..3 m. 4f. STATION.
		3 m. 4f	TARAMANGALAM ..14 m. 0f. Cross the Omalur river, unbridged.
		2	
		17m.4f.	NANGAVELLI.—7 m. 0f. <i>p</i>
		3	
		24m.4f.	

ROUTE No. 6 (14).

FROM SALEM TO KADIYAMPATTI RAILWAY STATION.

From Salem a cart track leads to the foot of the hill, 5 m. ; thence to Yercaud the hill (average gradient 1 in 5) is fit for pack animals only. Fever is very prevalent at the foot of the hill.

Direction.—N. E. to Yercaud, thence N. W.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (14).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		SALEM— <i>b. p. l. r.</i>
		1	YERCAUD.—14 m. 0 f. <i>p. l.</i>
		14 m. 0 f.	KADIYAMPATTI.—11 m. 4 f. RAILWAY. STATION.
		2	<i>r.</i>
		25 m. 4 f.	

ROUTE No. 6 (15).

FROM PAPIREDDIPATTI TO MUKANURPATTI.

A fair road, wholly metalled.

Direction.—North-West.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PAPIREDDIPATTI— <i>p.</i>
		1	MALLAPURAM .. 10 m. 4 f. Cross the Vaniyar RAILWAY STATION. river, unbridged.
		10 m. 4 f.	<i>r.</i>
		2	KADATTUR— <i>p.</i>
		3	MUKANURPATTI.— 11 m. 0 f.

ROUTE No. 6 (19).

FROM KAMBAINALLUR TO ANANDUR.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (19).
Civil.	Mili- tary.		
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KAMBIANALLUR. <i>p.</i>
		1 6 m. 0 f.	ANANDUR.—6 m. 0 f.

ROUTE No. 6 (20).

FROM KAMBAINALLUR TO IRUMATTUR.

Cross the Kambainallur river, unbridged. A gravelled road.

Direction.—North-West.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KAMBAINALLUR.— <i>p.</i>
		1 4 m 0 f.	IRUMATTUR.—4 m. 0 f. <i>p.</i>

ROUTE No. 6 (21).
FROM HARUR TO PENNAGARAM.

Road metalled and practicable at all seasons.

Direction.—North-West and West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (21).
Civil.	Military.		
COLLECTOR OF SALEM. SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	HARUR.—
		1	<i>p.</i> MUKKANUR.—16 m. 0 f.
		16m. 0f. 2	DHARMAPURI.—9 m. 0 f. <i>b.p.t.</i>
		25m. 0f. 3	PENNAGARAM.—19 m. 0 f. A foot path leads <i>p.</i> from here to Tiru-
		44m. 0f.	manahalli on the Cauvery 4 m. distant. At 2½ m. pass Sogatur.

No. 6 (22).
FROM HARUR TO MUKKANUR (*via* MORAPPUR RAILWAY
STATION).

Road partially metalled and bridged, practicable at all seasons.

Direction.—West.

COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	HARUR.—
		1	<i>p.</i> MORAPPUR .. 8 m. 2 f. RAILWAY STATION.
		8m. 2f. 2	<i>p.r.</i> MUKKANUR.—8 m. 6 f.
		17m. 0f.	

ROUTE No. 6 (23).

FROM HARUR TO TIRTAMALAI.

Cross the Vaniyar and Varatar rivers, unbridged. Road similar to above. Route No. 6 (2).

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (23).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	HARUR.— <i>p.</i>
		1 9m. 0f.	TIRTAMALAI.—9 m. 0 f. <i>p.</i>

No. 6 (24).

FROM KOTTAPPATTI TO HANUMATERTAM.

Cross the Pennar and Vaniyar rivers, unbridged. Road gravelled up to near Tirtamalai, thence metalled, bridged and practicable at all seasons, except when the rivers are in flood.

Direction.—North-North-West.

COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KOTTAPPATTI.— <i>p.</i>
		1 18m. 4f.	HANUMATERTAM ..18 m. 4f. (VADUNAR).

ROUTE No. 6 (25).

FROM TIRUPATUR TO BARGUR.

Road metalled and partially bridged.

Direction.—West-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (25).
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TIRUPATUR— <i>p.t.r.</i>
		1	BARGUR OR ..15 m. 1 f. <i>Vide Main Route</i> MALAPBADI. IV, stage No. 13.
		15m. 1f.	<i>v.</i>

ROUTE No. 6 (26).

FROM TIRUPATUR TO ALANGAYAM.

Cross a branch of the Pambaiyar river, unbridged ; road metalled and bridged, practicable at all seasons.

Direction.—North-East.

COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TIRUPATUR.— <i>p.t.r.</i>
		1	ALANGAYAM.—18 m. 6 f.
		18m. 6f.	<i>p.</i>

ROUTE No. 6 (27).

FROM JALARPET TO NATTARAMPALLI.

Road metalled and bridged, practicable at all seasons. No convenient camping-ground 3 m. from foot of Javadi Hills.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 6 (27).
Civil.	Military.		
COLLECTOR, NORTH ARCOT, VELLORE.		..	JALARPET.— <i>p.r.</i>
	G. O. C. MADRAS DISTRICT, WELLINGTON.	1	NATTARAMPALLI.—6 m. 0 f. <i>Vide</i> main <i>p.</i> .. Route No. IV, stage No. 12.

ROUTE No. 6 (28).

FROM ALANGAYAM TO VANIYAMBADI.

Road metalled and bridged, practicable at all seasons.

Direction.—North-West.

COLLECTOR OF NORTH ARCOT, VELLORE.		..	ALANGAYAM.— <i>p.</i>
	G. O. C. MADRAS DISTRICT, WELLINGTON.		VANIYAMBADI —11 m. 3 f. <i>p.t.r</i>

ROUTE NO. 7.

FROM ALLINAGARAM TO NEGAPATAM.

Length.—203 m. Of.

20 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1910.

Epitome.—Direction E.-N.-E. As far as Konagudi, this road is practicable at all seasons, but not fit for motors throughout; the only unbridged river, the Vaigai, being fordable, except when heavy floods come down, but these never last more than a day or two. There is now a cable ferry over the river capable of conveying one loaded cart or about 25 people at a time. From Konagudi to Arantangi, the road is gravelled, and thence to Negapatam is earthen and difficult in the rainy season; the larger unbridged streams are seldom in freshet, and floods never last more than a few hours. Water is scarce in the Tanjore district as far as Manargudi during the dry season.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 7.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	Initial stage.	<p>ALLINAGARAM.—Road metalled and gravelled, fit for motors. Country mostly cultivated, rocky in parts. Route No. 9 crosses here.</p> <p><i>Camping-ground.</i>—S.-W. and dry lands E. of village.</p> <p><i>Water.</i>—Wells and tanks for 1,000 men and 500 animals.</p> <p><i>Fuel.</i>—Obtainable from Forest Reserve.</p> <p><i>Fodder.</i>—Grazing at 1 m. for 500 animals.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 200 animals for 2 weeks. Oxen 25; sheep 200; goats 150. Country vegetables obtainable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 7.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		1	ANDIPATI.—11 m. 3 f. Road metalled and (8,725). gravelled, fit for motors. Country mostly cultivated, rocky in parts. Cross the Vaigai river, bridged, and provided with a cable ferry, and 2 streams, bridged. 3 m. Kunmur (1,595'). 9½ m. Jakkampatti. <i>Camping-ground</i> .—No fit ground indicated. <i>Water</i> .—For 1,000 men and 500 animals. <i>Fuel</i> .—Five cartloads. <i>Fodder</i> .—Grazing : 300 acres suitable for 200 animals. <i>Supplies</i> .—Grain for 1000 men and 200 animals for about 14 days. Oxen 25; sheep 200; goats 150. Vegetables available.
		11 m. 0 f.	
		2	USALAMPATTI.—13 m. 0 f. Metalled road, fit (7,725). p. for wheeled transport. Country open and cultivated. Cross a stream, fordable. 9½ Dodappanaichennal (3,586). 11 m. Nahul-patti (3,928). <i>Camping-ground</i> .—No fit ground indicated. <i>Water</i> .—Supply good. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 1,000 men and 100 animals for 1 week. Oxen 200; sheep 750; goats 500. Country vegetables plentiful.
		24 m. 3 f.	
		3	KOKALAM.—14 m. 1 f. Metalled road, fit for (2,835). wheeled transport. Country open and cultivated. Cross a stream, fordable.
		38 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 7.	
Civil.	Mili- tary.			
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>4½ m. Ariyapatti (2,870). 6 m. Valundur (2,300). 8 m. Konilamgulam (3,445). <i>Camping-ground</i>.—Not indicated. <i>Water</i>.—For 100 men and animals. <i>Fuel</i>.—Nil. <i>Fodder</i>.—Nil. <i>Supplies</i>.—On market days only: grain for 200 men and animals for 1 week. Oxen 100; sheep 50; goats 100. Vegetables (country) plentiful.</p>	
		4	MADURA.—10 m. 2 f.	
		48 m. 6 f. 5	CHITTAMPATI.—9 m. 0 f.	
		57 m. 6 f. 6	MELUR.—8 m. 4 f.	
		66 m. 2 f. 7	SATHURSAM.—13 m. 0 f.	
		79 m. 2 f.	HARAKKOTTAL	
			<p>metalled road, fit for motors. Country open, flat and rocky, no cultivation. Cross 1 <i>nala</i>, bridged. <i>Camping-ground</i>.—20 acres W. of village. <i>Water</i>.—Sufficient for 2,000 men and 5,000 animals. <i>Fuel</i>.—Can be cut near village. <i>Fodder</i>.—Grazing for 400 animals around village. <i>Supplies</i>.—Grain for 1 or 2 days for 600 men and 1,000 animals. Oxen 100; sheep 100. Vegetables available.</p>	

See main Route V,
stages Nos. 8, 9
and 10.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 7.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	8	TIRUPATUR.—8 m 0f. Metalled road, fit (7,056). for motors. Country flat and open, partially cultivated. 5 m. Kotayappa (848); Route No. 8 joins here, and Routes Nos. 11 and 12 cross here.
		87 m. 2 f.	<i>Camping-ground.</i> —To W. of town. <i>Water.</i> —For 1,000 men and animals. <i>Fuel.</i> —Can be obtained round village. <i>Fodder.</i> —Grazing for 500 animals, round village. <i>Supplies.</i> —Grain for 500 men and animals. Oxen 100; sheep 100; goats 50.
		9	KUNWAKUDI.—7m. 0f. Metalled road, fit for (2,825). motors. Pagoda on the top of a rock here. Country flat, open and cultivated with some jungle in places. Cross 1 <i>nala</i> , bridged.
		94 m. 2 f.	<i>Camping-ground.</i> —20 acres E. and W. of village. and 10 acres more, if required. <i>Water.</i> —From small tanks only. <i>Fuel, Fodder and Supplies.</i> —Nil.
		10	SAKKOTTAL.—11m. 0f. Road unfit for motors. (700). Country partly cultivated, partly jungle. Cross numerous <i>nalas</i> , unbridged, fordable. 2 m. Talavayandi (760). 6 m. Palathur (4,600).
		105 m. 2 f.	<i>Camping-ground.</i> —1 sq. m. W. of village. <i>Water.</i> —For 10,000 men and animals, from tank and wells. <i>Fuel.</i> —Obtainable from adjacent jungles. <i>Fodder.</i> —10 acres of grazing. <i>Supplies.</i> —Grain for 5,000 men and 1,000 animals for 7 days. Oxen 100; sheep 400.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		11	ARANTANGI.—12 m. 2 f. Sandy road, fit only for country bullock carts. Headquarters of a Deputy Tahsildar. Local Fund Dispensary. Cross the Vellar river and a <i>nala</i> , unbridged, fordable. 1—6 m. Karnakudi, Perriakottai, Valaramanikam. 7 m. Kammandi (430). 9 m. Preduvakota (145). 10 m. Edaiyar (320). <i>Camping-ground</i> .—20 acres E. of fort and 20 acres additional, if required. <i>Water</i> .—Sufficient for 500 men and animals. <i>Fuel</i> .—Nil. <i>Supplies</i> .—Grain for 500 men and animals for one week. Oxen 100, sheep 100. Vegetables nil.
		117 m. 4 f.	
		12	VELLAVARI.—8 m. 0 f. Road fit only for country carts. Country partly cultivated, partly jungles. Cross four <i>nalas</i> , unbridged. 1 m. Andakota (86). 5 m. Ettithali (77). 6 m. Marodagudi (83). <i>Camping-ground</i> .—20 acres E. of village. <i>Water</i> .—From tanks and wells for 500 men and animals. <i>Fuel, Fodder and Supplies</i> .—Nil.
		125 m. 4 f.	
		13	PERAVURNI.—7 m. 2 f. Unmade road, fit for wheeled transport, but bad in rains. Country open and cultivated. 3 m. Saranakadu (415). 3½ m. Nisambur. 5 m. Sithatindadu (206). Cross 3 <i>nalas</i> , unbridged.
		132 m. 6 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 7.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground</i>.—8 acres round village and adjacent topes also.</p> <p><i>Water</i>.—600 men and 300 animals.</p> <p><i>Fuel</i>.—Can be cut near village.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—At weekly market on Sundays. Grain for 300 men for 1 week, 20 bundles grass. Oxen 100; sheep 300; goats 100. Vegetables for 100 men for 3 days.</p>
		14	<p>PATUKOTA.—13 m. 6f. Road fit for motors, (6,000). but bad in wet weather. Country partly light jungle and partly cultivation. Headquarters of Deputy Collector. Route No. 17 crosses here. Cross 3 <i>nalas</i>, unbridged. 10m. Pannavayal. 12 m. Maharajah Samudram. 11 m. Kallar river, 200', unbridged, fordable, no boats.</p> <p><i>Camping-ground</i>.—No Government ground, but 55 acres N.-E. of town can be used when not under cultivation.</p> <p><i>Water</i>.—From 1 tank and 8 wells, for 100 men and animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 100 men for 7 days and 100 animals for 3 days. Oxen 40; sheep 50; goats 50. Vegetables about 250 lbs. daily.</p>
		145 m. 4f.	
		15	<p>NEMMELI.—10 m. 4f. Road fit for motors. A small village one mile E. of road.</p> <p>Country flat, open and partly cultivated.</p>
		157 m. 0f.	

ROUTE NO. 7.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			2 m. Surrapattan. 4 m. Sendankadur. 5 m. Alathur. 6 m. Mullurpattukadu. 8 m. Kannukudi. Cross 3 <i>nalas</i> , unbridged. <i>Camping-ground</i> .—None indicated. <i>Water</i> .—From a stream and well. <i>Supplies</i> .—Nil.
		16	MANNARGUDI.—9 m. 2 f. Mud road, in fair condition, unfit for motors. Country wooded. This place is also called Mannarkoil, has a fine pagoda covering a great area. Headquarters of a Tahsildar and Revenue Divisional Officer; has a municipal hospital. Route No. 20 crosses and No. 31 joins here. Cross 2 streams, unfordable, and one bridged brick. 3 m. Ullukorhair (3,770). 4 m. Pallakkudi (2,056). 6 m. Sonora Kutthair (560). 6 m. Asethum (745). 7 m. Gopalavam (234). 8 m. Naduna Ktair (1,770). <i>Camping-ground</i> .—25 acres S. W. of town. <i>Water</i> .—From 72 tanks and 13 wells, for 3,000 men and animals. <i>Fuel</i> .—Cut. 100 tons. <i>Fodder</i> .—50 acres grazing 2 m. from town. <i>Supplies</i> .—Grain for 2,000 men and 500 animals for 1 week. Oxen 500; sheep, 500; goats 200. Vegetables scarce.
		166 m. 2 f.	
		17	LAKSHMANAGUDI.—7 m. 2 f. Road for first 3½ m. gravelled; thence mud, good condition, but unfit for motors. Country wooded.
		173 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 7.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>Kuthanallur, an adjoining village, is visited, generally in December and January, by cholera. Local Fund Dispensary there on bank of Vennar river. Cross 4 streams, small. All bridged, brick. $3\frac{1}{2}$ m. Sannalakkason (664). 6 m. Ramanathanaveri (1,885).</p> <p><i>Camping-ground.</i>—Small, W. of village.</p> <p><i>Water.</i>—From 6 tanks and 6 wells, for 500 men and 200 animals.</p> <p><i>Fuel.</i>—Cut, 3 cartloads.</p> <p><i>Supplies.</i>—Grain for 100 men and 50 animals. Oxen 200; goats 50. Vegetables scarce.</p>
		18	<p>TIRUVALUR.—10 m. 0 f. Gravelled road, fit for motors. Country open and cultivated.</p> <p>South Indian Railway Station. Headquarters of a Deputy Tahsildar. Cross 2 streams, bridged. Route No. 14 joins here. $8\frac{1}{2}$ m. Vilamal (510).</p> <p><i>Camping-ground.</i>—20 acres. 1 m. W. of town; 10 acres E. of Mandalam-Tiruvalur road; 10 acres extra, if required.</p> <p><i>Water.</i>—For 10,000 men and animals.</p> <p><i>Fuel.</i>—12½ tons, cut.</p> <p><i>Fodder.</i>—Grazing: 20 acres, for 1,000 animals.</p> <p><i>Supplies.</i>—Grain for 500 men and animals for 1 week. Oxen 6; sheep 50; goats 50 (per day). Vegetables available.</p>
		183 m. 4 f.	
		19	<p>KIVALUR.—8 m. 0 f. Unmetalled road, for wheeled transport only, and bad in rains.</p> <p>South Indian Railway Station. Country mostly cultivated.</p>
		191 m. 4 f.	

AUTHORITIES

Civil.

Mili-
tary.No.
of
stage
and
total
distance.

COLLECTOR OF TANJORE, TANJORE.

GENERAL OFFICER COMMANDING MADRAS DISTRICT,
WELLINGTON.

20

203 m. 4f

ROUTE NO. 7.

2 m. Sandera Vilagam (2585). 4 m. Adiyappa-Mangalam (2,780). 5 m. Athipiliyur (1,075). 7 m. Kurukhati (774). 8 m. cross the Adam-boli river, bridged.

Camping-ground.—5 acres W. and 10 acres E. of village.

Water.—Supply difficult in hot weather, ordinarily sufficient for 1,000 men and animals.

Fuel.—Small quantity only available.

Supplies.—Rice for 1,000 men for 10 days. Straw for 500 animals for 1 day (both from rice mill). Vegetables for 100 men.

NEGAPATAM.—12 m. 0 f. *Vide* Route No. 5, stage No. 25. Un-

metalled road, in

fair order, fit for wheeled transport. South Indian Railway branch station S. of road. Country mostly cultivated. 1 m. Agarakadam-banur (995). 3 m. Aziyur (493). 4 m. Themangalam (2,130). 5 m. Sikkil (3,066).

364GSB

2E

ROUTE No. 7 (1).

FROM ARANTANGI TO SATHUBAVA CHATTRAM.

An unmade track, practicable for carts in the dry season. The unbridged streams are fordable at all seasons, as freshets subside in a few hours.

Direction—North-East

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 7 (1).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	ARANTANGI.— <i>b.p.t.</i>
		1	YEDAIYATUR.—10 m. 4 f. A small village. Country open, flat and slightly cultivated. Cross three <i>nalas</i> , unbridged.
		10m. 4f.	<i>Camping-ground.</i> —Nil <i>Water.</i> —From a tank and stream. <i>Supplies.</i> —Scanty.
		2	SATHUBAVA—15 m. 1 f. A large village. CHATTRAM Country open, flat and slightly cultivated. Cross the Umbileyar river, unbridged. and several smaller streams, also unbridged.
		25m. 5f.	<i>Camping-ground.</i> —Good, for three regiments, E. of village, close to sea. <i>Water.</i> —Good and abundant, from wells and tanks. <i>Supplies.</i> —Scanty.

ROUTE No. 7 (2).

FROM TIRUVALUR TO PAPANASAM.

An earthen road, in good order, but a little soft in the rainy seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 7 (2).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		TIRUVALUR.— <i>b.p.t.r.</i>
		1	VALANGAMAN.—18 m. 0 f.
		18 m. 0 f.	<i>p.</i>
		2	PAPANASAM.—9 m. 0 f. <i>Vide</i> Route No. 8; <i>p.t.r.</i> stage No. 6.
		27 m. 0 f.	

ROUTE No. 7 (3).

FROM ALIYUR TO NAGORE.

Road unmetalled but bridged, practicable at all seasons.

Direction.—North-East.

COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		ALIYUR.—(Near Kivalur on Route No 7
		1	NAGORE.—4 m. 4 f. On Route No. 5. <i>p.t.r.</i>
		4 m. 4 f.	

ROUTE NO. 8.

FROM TIRUPATUR TO SHIYALI.

Length.—120 m. 5 f.

10 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—Direction North-East. The road is metalled or gravelled and bridged, except the Vellar river, as far as Tanjore: thence it is earthen and occasionally heavy; practicable at all times, except for 2 or 3 days at times, when the Vellar river is in flood. In the Tanjore District, it is not easy to find camping-grounds when the rice crop is uncut. There is railway communication between Tanjore and Kumbakonam.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 8.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TIRUPATUR.— <i>Vide</i> Route No. 7, stage <i>p.t.</i> No. 8. Route No. 12 joins here.
		1 15m. 4f.	TIRUMAYAM.—15 m. 4 f. Gravelled road, fit <i>p.t.</i> (4,128). for motors. All streams have culverts. Country open to Mangombu (5 m. 5 f.) thence cultivated, small jungle. 8 m. Pillamangalam (2,270). 13 m. Pullivasal (1,000). <i>Camping-ground.</i> —130 yds. × 170 yds. N. W. of town. <i>Water.</i> —2 tanks, for 1,000 men and 500 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 1,000 men and 50 animals for 2 days. Sheep 100; goats 50. Vegetables in limited quantities.

AUTHORITIES.

Civil.	Military.	No. of stage and total distance.	ROUTE NO. 8.
POLITICAL AGENT, PUDDUKOTAH, TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	PUDDUKOTAH.—12 m. 0 f. Metalled road, fit for motors. A large town, capital of the
		27 m. 4 f.	Pudukotah State. Country open and mostly paddy. Nalas bridged. Route No. 12 joins here. 2 m. Pampar river, 60', bridged. 4 m. Pillivalam (746). 6 m. Namasamudrum (500). 7 m. Kammanchetti Chattram (500). 8 m. cross the Vellar river, unbridged, 180 yds. wide, fordable, by a causeway. 10 m. Kunder river, 50', bridged. <i>Camping-ground.</i> —Machavadi, N. of Town, 880 yds. × 850 yds., also unlimited open space in neighbourhood. <i>Water.</i> —2 tanks, for 1,000 men and 500 animals. <i>Fuel.</i> —10 tons, in Fuel Depot. <i>Fodder.</i> —None available, as jungle is reserved. <i>Supplies.</i> —Grain for 1,000 men and 500 animals for 1 week. Sheep 1,000; goats 1,000. Vegetables limited, except at Friday market when large quantities are obtainable.
		3	PERUNGALUR.—11 m. 0 f. Road graveled, fit for motors. Country flat, alternate jungle and cultivation (paddy.) 5 m. Ichadichatram (200). 7 m. Chinna Chattram (500). 10 m. Icunni river, 300', bridged, fordable by bullock carts. <i>Camping-ground.</i> —N. E. of village, 330 yds. × 330 yds., also unlimited open space near. <i>Water.</i> —50 wells and 9 tanks, for 1,000 men and 500 animals.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 8.
Civil.	Milit- ary.		
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Fuel.</i>—Plentiful supply obtainable near.</p> <p><i>Fodder.</i>—100 acres of grazing, for 2,000 cattle, $\frac{3}{4}$ m. from village.</p> <p><i>Supplies.</i>—Grain for 100 men for 1 month. Sheep 1,000; goats 200. Vegetables in small quantities.</p>
		4	<p>GANDHARVAKOTA.—9 m. 0 f. Road gravelled, fit for motors. Country cultivated.</p> <p><i>p.</i></p> <p><i>Vide</i> Route No. 17, stage 4.</p>
		47m. 4f.	
		5	<p>TANJORE.—15 m. 1f. Gravelled road, fit for <i>b.p.t.r.</i> motors. An important town. South Indian Railway Station. Headquarters of the district. The Railway is crossed in this stage. Routes Nos. 14 and 20 cross here. 4 m. Poothapatti. 8 m. Mappilainagakanpatti.</p> <p><i>Camping-ground.</i>—1 m. N. of the fort, for 1½ Infantry Brigades.</p> <p><i>Water.</i>—From Vandamar river, tank and wells, for men and transport of 2 Battalions during the rains.</p> <p><i>Fuel.</i>—100 tons, stacked.</p> <p><i>Fodder.</i>—Grazing for 1,000 animals 1 m. from town.</p> <p><i>Supplies.</i>—Grain for men and animals of 2 Infantry Brigades for 1 month. Oxen 100; sheep 1,000; goats 1,000. Vegetables, 10 maunds daily in season.</p>
		62m. 5f.	
		6	<p>PAPANASAM.—15 m. 1f. Road partly gravelled, fit for wheeled transport; motors cannot pass the unmade portions. Country open and cultivated.</p> <p><i>p.t.r.</i> (2,470).</p>
		77m. 6f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 8.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>Kudamurutti river runs parallel to road. 2 m. Pakiajukur (153). 3 m. Narasingappur (830). 3½ m. Ramapuram (782). 4-4½ m. Thattakadu, (875). Manan Kura; (832). Thandan Kura; (905). 6 m. Nallicheri (933). 7 m. Parsipatti Koil (2,678). 8 m. Manojappachavadi (3,106). Salamalayam (3,069). Ayyampot (901). 9 m. Chotrapalli (3,450). 10 m. Valuthur (2,357). 10 m. Sarabojirajapuram (104). 11 m. Raghunathpuram (4,345). 12 m. Bandaruvasai (3,260). 13 m. Rajagiri (4,345). 14 m. Arayapuram (1,164).</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—1,000 men and 500 animals, from river; which runs parallel to road throughout stage.</p> <p><i>Fuel.</i>—20 cartloads.</p> <p><i>Fodder.</i>—Grazing in Railway compound, 5 acres, for 200 animals.</p> <p><i>Supplies.</i>—Grain for 500 men and 200 animals for 2 days. Sheep 5; goats 15 (daily). Vegetables for about 100 men at Sunday markets.</p>
		7 86 m. 1 f.	<p>KUMBAKONAM.—8m. 3f. Road unfitted for b. p. t.r. motors. Head- quarters of a Deputy Collector. Municipal Hospital. Route No. 31 crosses here. Country open and cultivated. 1 m. Sundara Perumakoil (3,500). 2½ m. Turuvalujuli (1,200). 3½ m. Ammamet (350). 4 m. Dayasuram (3,364). Cross 3 streams, bridged.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—For about 2,000 men and animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 8.
Civil.	Military.		
COLLECTOR OF TANJORE TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.	8	TIRUVLANGADU—12 m. 0 f. Unmade road, unfit for motors. Country open and cultivated. Narasingampet Railway Station within a mile. 1 m. Chattram Kuppur (1,000). 2 m. Koranatta Karuppur (2,000). 3 m. Nananjin (1,042). 4½ m. Thirumungalur (2,085). 4¾ m. Paruthikudi (812). 6½ m. Veppathur (5,991). 7 m. Paruthikudi (812). 7½ m. Kuruchimulai (5,990). <i>Camping-ground.</i> —Nil. <i>Water.</i> —For 1,000 men and animals, from tanks, and from Cauvery river, unlimited. <i>Supplies.</i> —Nil.
		98 m. 1 f.	
		9	MAYAVARAM—9 m. 3 f. Mud road, good repair; unfit for motors. Country cultivated. 1½ m. Madamangalam (1,734). 5 m. Koletthirabatapuram (1,543). 6 m. Anaimelagaram (1,083). 7 m. Movalur (1,450). 8 m. Sithakkadu (2,050). At 3 m. pass Kuttalam.—p. Railway Station. <i>Camping-ground.</i> —Available 1 m. E. of town. <i>Water.</i> —From Cauvery river, tanks and wells, for 500 men and animals. <i>Fuel.</i> —Cut, 20 tons. <i>Supplies.</i> —Grain for 500 men and animals for 1 week. Sheep 200, goats 200. Vegetables scarce.
		107 m. 4 f.	
		10	SHIYALI—13 m. 1 f. Mud road, good repair, b. p. t. r. unfit for motors. Country cultivated—vide Route No. 5, Stage No. 29.
		120 m. 5 f.	

ROUTE No. 8 (1).

FROM KUTTALAM TO PANDANALLUR.

A mud road, unmetalled, in good order, and practicable at all seasons.

Direction—North-North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 8 (1).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KUTTALAM.— <i>p. l.</i>
		1	PANDANALLUR—6m. 0 f.
		6 m. 0 f.	

ROUTE No. 8 (2).

FROM MAYAVARAM TO KAVERIPATNAM.

Earthen road, in good order; practicable at all seasons.

Direction—North-East.

COLLECTOR OF TANJORE, TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		MAYAVARAM.— <i>b. p. l. r.</i>
		1	KARAVINDARADUPURAM.—10 m. 1 f.
		10m. 1 f.	Cross the Cauvery river, unbridged and impassable when in flood.
		2	KAVERIPATNAM.—6 m. 4 f. (On the Coast.)
		16m. 5 f.	<i>p.</i>

ROUTE NO. 9.

FROM KOTARAKARAI TO VIKRAVANDI.

Length.—382 m. 1 f.

39 stages.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—Direction N.-E. and N. Between Kotarakarai and a few miles beyond Pullampadi the road is metalled, except for a few miles between Tangampatti and Vaiyampati, where it is gravelled. The river and the few streams that are unbridged do not render it impracticable, even in the rainy season, floods on them being of short duration. Though two ranges of hills are crossed, the passes over them are well made and offer no obstruction to wheeled traffic; but fever prevails about the hills from Kambam to Vallur, from February to June, during which months this route should not be used. The remainder of the road is chiefly gravelled or metalled and practicable at all seasons.

AUTHORITIES.		No. of stage and total distance.	<h3 style="text-align: center;">ROUTE NO. 9.</h3>
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	C. O. C., MADRAS DISTRICT, WELLINGTON.	1	KOTARAKARAI.— <i>Vide</i> Route No. 3, stage b. r. 11.
		6 m. 6 f.	<p>YANADIMANGALAM.—Gravelled road, fit (203). for all transport. Country, wet and dry cultivation. 4½ m. Kalavapuram. 6¾ m. cross Kalada river, crossed by ferry boats, when not fordable. 340', stone bridge. <i>Camping-ground.</i>—20 acres S. of village. <i>Water.</i>—From river and wells, scarce in summer. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing plentiful round village. <i>Supplies.</i>—Oxen 200; sheep 400. Vegetables in small quantities.</p>

ROUTE NO. 9.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	UDDAIYUR or UDDUR—6 m. 4f. Gravelled road, fit for all transport. Country wet and dry cultivation. 5½ m. <i>nala</i> , 65', stone bridge. <i>Camping-ground</i> .—200 acres W. of village. <i>Water</i> .—From stream, tank and wells; scarce in summer. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 50 animals near village. <i>Supplies</i> .—Oxen 100; sheep 300. Vegetables in small quantities.
		13 m. 2 f.	
		3	PANDAIAM—7 m. 3f. Gravelled road, unfit for motors. Country undulating and cultivated. Cross a stream, 60', bridged. 1 m. Adur (2,000). 5½ m. Kadakad. <i>Camping-ground</i> .—20 acres, N. of village, also 100 acres 1½ m. N., if required. <i>Water</i> .—Unlimited. <i>Fuel</i> .—Can be cut round village. <i>Supplies</i> .—Grain and meat <i>nil</i> . Country vegetables obtainable.
		20 m. 5 f.	
		4	CHENGANNUR—9 m. 0f. Gravelled road, not fit for motors. Country undulating and cultivated. 1 m. Cross Pandalam river, bridged (380'). 6½ m. Mulakolay. <i>Camping-ground</i> .—½ sq. m. S. of village, also 100 acres N. bank of river. <i>Water</i> .—For a large number available. <i>Fuel</i> .—Can be cut round village. <i>Supplies</i> .— <i>Nil</i> except at Wednesday and Saturday's market.
		29 m. 5 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9.
Civil.	Mili- tary.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	5	<p>CHANGANACHERY.—12 m. 0 f. Gravelled road, not fit for motors. Country cultivated and lightly wooded. 1 m. Pampa river, 220 yds., crossed by ferry. 2½ m. <i>nala</i>, 50', stone bridge. 3½ m. Vanattam river, 100 yds., fordable, boats carrying 8 tons each available. 4 m. Manimala river, 150 yds., fordable, bridge under construction. 5½ m., <i>nala</i>, 35', stone bridge. 6 m. Tiruvala (7.969). 8½ m., <i>nala</i>, 30', stone bridge. 10 m., <i>nala</i>, 40', stone bridge.</p> <p>Camping-ground.—3 m. E. of town on Pirmade Road.</p> <p>Water.—From wells and streams, scarce in summer.</p> <p>Fuel.—Obtainable.</p> <p>Fodder.—Nil.</p> <p>Supplies.—Grain abundant.</p>
		41 m. 5 f.	
		6	
		60 m. 5 f.	<p>VAIUR OR—19 m. 0 f. Metalled road, not fit for motors. Country cultivated, some rocky jungle. Pass 9 <i>nalas</i>, stone bridges. At 9 m. Kanukachal (2,000). 13 m. Nedungan (2,000).</p> <p>Camping-ground.—5 acres north of town.</p> <p>Water.—From tank and wells; scarce in summer.</p> <p>Fuel, Fodder and Supplies.—Nil.</p>
		7	
		66 m. 5 f.	<p>KANGERAPALLI.—6 m. 0 f. Metalled roads, (2,785). unfit for motors. Country cultivated, with some rocky jungle. 4½ m. Pankunnam (7,500).</p>

ROUTE NO. 9.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground.</i>—Round village. <i>Water.</i>—Plentiful except in summer. <i>Fuel.</i>—Obtainable. <i>Supplies.</i>—Can be imported with notice.</p>
		8	MUNDAKAYAM.—9 m. 0 f. Metalled road; unfitt for motors.
		75 m. 5 f.	<p>b.p.t. (1,000). Country cultivated, with some rocky jungle. Cross numerous small streams, all bridged. <i>Camping-ground.</i>—Nil. <i>Water.</i>—Plentiful. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing is plentiful close by.</p>
		9	PEERMED.—13 m. 0 f. Road unfitt for motors; metalled, winding and hilly, descends to next stage, 5½ m. Pambanar (200). Cross 2 nalas, widest 70', stone bridges.
		88 m. 5 f.	<p><i>Camping-ground.</i>—Unlimited round the village. <i>Water.</i>—Usually plentiful, but scarce in hot weather. <i>Fuel.</i>—Obtainable. <i>Supplies.</i>—Nil, except grass and 100 oxen.</p>
		10	WASSAPADANGI.—9 m. 0 f. Road metalled, unfitt for motors.
		97 m. 5 f.	<p>Cross Periyar river, 300', stone bridge, also Pambanar and Uradai rivers, bridged. The Peerméd plateau extending from Wassapadangi to Peerméd is healthy all the year round, never feverish. <i>Camping-ground.</i>—Unlimited.</p>

ROUTE NO. 9.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			
		11	<p><i>Water</i>.—Plentiful for 9 months of the year. <i>Fuel</i>.—Obtainable. <i>Supplies</i>.—Nil, except grass.</p>
		113m. 4f.	<p>MURUTH (CAMP).—12 m. 0f. Metalled road, fit for motors. First 6 m. hilly and open, then jungle with patches of cultivation. Cross the Periyar river, 100 yds., bridged and 5 <i>nalas</i>, all bridged. 5½ m. Vandeperiyar (500). <i>Camping-ground</i>.—Large area of grass land. <i>Water</i>.—Difficult in hot weather, plentiful in rains. <i>Fuel</i>.—Can be cut in plenty. <i>Fodder</i>.—Grazing all round camping ground. <i>Supplies</i>.—Nil.</p>
		12	<p>GUDALUR.—9 m. 2 f. Metalled road, fit for motors. The top of the hill is at 3rd mile, it is 5 m. long, gradient 1 in 17. Cross Vaigai River, bridged. Ascend the hill, cross 3 streams, bridged. Country for first 4½ m. jungle, then open cultivation. <i>Camping-ground</i>.—After harvest, in dry land round village. <i>Water</i>.—For 1,000 men and 500 animals. <i>Fuel</i>.—From Forest Reserve, 2½ m. W. of village. <i>Fodder</i>.—2½ m. away, grazing in Forest Reserve for 1,000 animals. <i>Supplies</i>.—Grain for 100 men and 50 animals for 2 days. Sheep 5; goats 5.</p>
		118m. 7f.	

ROUTE NO. 9.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		13	KAMBAM.—4 m. 6 f. Metalled road, fit for (15,440). motors. Country open and cultivated.
		123m. 5f.	Camping-ground.—After harvest only. Water.—From channels, unlimited. Fuel.—From Forest Reserve, 2½ m. away. Fodder.—Grazing for 1,000 animals. Supplies.—Grain for 200 men and 100 animals for 5 days. Sheep 50; goats 50. Country vegetables available.
		14	UTTRMAPALAYAM.—5 m. 4 f. Metalled road, fit for motors.
		129m. 1f.	b. p. t. (11,681) At 2½ m. Podupatu (3,482). 4½ m. Anavaramdampatu (3,070). Camping-ground.—After harvest only. Water.—Unlimited supply, from Periyar river; through a channel, which is closed Mondays, Thursdays and Sundays; on these days the Public Works official should be approached. Fuel.—3 tons, and can be cut from Forest Reserve, 3 m. away. Fodder.—Grazing in Forest Reserve for 1,000 animals. Supplies.—Grain for 200 men and 25 animals for 5 days. Sheep 25; goats 10. Country vegetables available.
		15	CHINNAMMANUR.—5 m. 0f. Metalled road; p. t. (11,365). fit for motors. Country cultivated, some jungle. Cross 1 stream, bridged.
		134m. 1f.	Camping-ground.—About 10 acres S. of village. Water.—From water channel for 1,000 men and 2,000 animals. Fuel.—Can be cut. Fodder.—Nil. Supplies.—Paddy for 1,000 men for 1 week. Sheep 50; goats 20.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		16	ALLINAGARAM.—15 m. 0f. Metalled road, fit for motors. Country cultivated. Cross one stream, bridged, and Virapandi river, bridged. 2½ m. Seelayampatti (2,539). 7½ m. Kattur (3,127). 9 m. Veeropandi (4,800). <i>Vide</i> Route No. 7.
		149m. 1f.	
		17	PERIYAKULAM.—8 m. 0f. Metalled road, fit for motors. Country cultivated, some jungle. Cross a stream, bridged. <i>Camping-ground</i> .—100 acres W. of town. <i>Water</i> .—Supply unlimited. <i>Fuel</i> .—From Forest Reserve, 6 m. distant. <i>Fodder</i> .—200 acres grazing, 5 m. distant, for 1,000 animals. <i>Supplies</i> .—Grain for 1,000 men and 200 horses for 1 week. Oxen 400; sheep 500; goats 100. Vegetables for 100 men per day.
		157m. 1f.	
		18	DEVADANAPATTI.—8 m. 0f. Metalled road, fit for motors. Country cultivated, some jungle. Cross 2 streams, unbridged, always fordable. <i>Camping-ground</i> .—100 acres W. of village. <i>Water</i> .—Scarce, from a well near the road. <i>Fuel</i> .—From Forest Reserve, 6 m. distant. <i>Fodder</i> .—200 acres for 1,000 animals at 5 m. <i>Supplies</i> .—Grain for 100 men, 50 horses and 50 bullocks for 1 week. Oxen 400; sheep, 500, goats 100. Country vegetables for 100 men for 1 day.
		165m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, BANGALORE.	19	BATLAGUNDU.—8 m. 0f. Metalled road, fit b. p. t. (12,566). for motors. Country cultivated, some
		173m. 1f.	jungle. Cross one stream, bridged. <i>Camping-ground</i> .—Nil. <i>Water</i> .—From wells and Manjalnadi river, for 500 men and 120 bullocks. <i>Fuel</i> .—Can be cut from Forest Reserve 5 m. distant. <i>Fodder</i> .—For 100 animals is available. <i>Supplies</i> .—Grain for 300 men and 100 animals for 1 week. Oxen 50; sheep 200; goats 300.
		20	SHEMPATL.—12 m. 0f. Metalled road, fit for motors. Country cultivated, some
		185m. 1f.	jungle. Cross the Mutilapuram river, unbridged. Fordable except during heavy floods. River at 3rd mile crossed by a masonry causeway. 4 m. Sevugampatti. 5 m. Singarupattai. 7 m. Singatamputti. 9 m. Sidaputti. <i>Camping-ground</i> .—No Government land, paddy fields must be used when crops are off. <i>Water</i> .—From 3 wells, 1 m. distant, scarce. <i>Fuel</i> .—10 tons (from Dindigul). <i>Supplies</i> .—(From Dindigul) grain for 5,000 men and animals for one week. Oxen 60; sheep 100; goats, 100. Vegetables 10 lbs. daily.
		21	DINDIGUL.—9 m. 0f. <i>Vide</i> Route No. 6, stage b. p. t. r. No. 14. Metalled road, fit for motors, country cultivated and some jungle. 1 m. Jeevala Sarayu (1,425). 4 m. Vackampatti (1,665).
		194m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground</i>.—25 acres W. of town. <i>Water</i>.—(Pipe and wells) 2,000 men and animals. <i>Fuel</i>.—10 tons. <i>Fodder</i>.—10 acres, for 100 animals, close to camping-ground. <i>Supplies</i>.—(From Dindigul). Grain for 5,000 men and animals for one week. Oxen 60; sheep 100; goats 100. Vegetables scarce.</p>
		22	VADAMADURA.—10 m. 4½ f. Gravelled road, b. p. t. r. (5,905). fit for wheeled transport. Station on South Indian Railway. Cross 2 streams, unbridged, fordable.
		204 m. 5½ f.	4 m. Mullapadi (2,780.) 6 m. Tamasaipadi (1,240). 6½ m. Ammakulatampadi. 8 m. Velareattah (3,016). <i>Camping-ground</i> .—40 acres N. and S. of village. <i>Water</i> .—For 50 men and 50 animals. <i>Fuel</i> .—400 cartloads at Railway Station. <i>Fodder</i> .—Grazing: 300 acres, 1 m. distant, for 400 animals. <i>Supplies</i> .—Grain for 500 men and animals, for 2 days. Oxen 200; sheep 500; goats 500. Vegetables 2 cartloads.
		23	TANGAMPATTI.—7 m. 0 f. Road fit for wheeled transport. Country hilly, partly cultivated; all <i>nalas</i> fordable. 1 m. Morepatu. 3½ m. Gollapatti. 5 m. Malarpatti.
		211 m. 5½ f.	<p><i>Camping-ground</i>.—15 acres S. W. of village and 30 acres additional, if required. <i>Water</i>.—Available for any number of men and animals in rainy seasons, in dry seasons wells only available.</p>

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 9.

Fuel.—Obtainable.*Fodder.*—Grazing for about 1,000 animals.*Supplies.*—Nil.

24

22 1/2 m. 1/2 f

VAITYAMPATTI—9 m. 3 f. A small village road.

p. t. r. (1,500) Country cultivated.

3 1/2 m. pass Kala-

patti b. 2 m. Kamaravadi (2,000). 4 m. *nati*,

20', fordable. 7 m. Nadupatti (1,200).

Camping-ground.—Nil.*Water.*—2 tanks and 50 wells, for 1,000 men.*Fuel.*—Obtainable.*Fodder.*—160 acres grazing within 1/2 m.*Supplies.*—Grain *nil*. Oxen 100; sheep 500;goats 500. Vegetables *nil*.

25

23 1/2 m. 4 1/2 f

MANAPARAI—10 m. 4 f. A small village

b. p. t. r. (6,000) road. Country flat

and open. A South

Indian Railway Station. Headquarters of a

Deputy Tahsildar. 4 m. Alathur (240). 5 m.

Malapatti (150). 6 m. Dombachi river 100

yds., fordable. 7 m. Thatehpatti (150). 8 m.

Mangampatti (500). 8 1/2 m. Thevampatti (500).

9 1/2 m. Seevalor (600).

Camping-ground.—10 acres S. W. of town.*Water.*—Plentiful, from Tanks.*Fuel.*—5 cartloads, cut.*Fodder.*—10 acres of grazing close by.*Supplies.*—Grain for 5,000 men. Oxen 1,000;sheep 500; goats 500. Vegetables *nil*.

COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 9.

COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

26

244 m.
4½ f

AMMAPETTAL.—13m. 0f. Metalled road, fit for motors. Country flat, cultivated and open, with numerous tanks. 3 m. Andavankoil. 6½ m. Arianpatit (1,100). 8 m. Maravanur. Cross Ariyar *nala*. 9 m. Pattandodai *nala*, both unbridged, usually fordable.
Camping-ground.—For 2 companies N. of village and 25 acres close by.
Water.—From 4 wells and 2 tanks, for 500 men.
Fuel and Fodder.—scarce.
Supplies.—Procured from Trichinopoly.

27

256 m.
2½ f

TRICHINOPOLY.—11 m. 6 f. *Vide* Main *b. p. t. r.* Route No. V, stage No. 16. Metalled road, but unfit for motors. Country flat and open. 2 m. *nala*, 60', brick bridge. 3 m. Perianayiki Chattram No. (317). 5 m. Muthukalam (2,484). 8¾ m. Kolatur.

28

269 m.
2½ f

LALGUDI.—14m. 1f. Metalled road, but unfit for *p.t.* (4,968'). motors. Country flat and open. 2 m. Coleeroon river, 660 yds., brick bridge. 3 m. Tiruvanakoil (1,400). 5 m. Talakudu (1,780). 6 m. Coleroon river (2nd branch) 880 yds. brick bridge. 7 m. Appadurai (1,062). 8 m. Valadi (1,780). 10 m. Nerivilgudi (1,049). 10¼ m. stream, 80', brick bridge. 12 m. Surudaiyur (1,073).
Camping-ground.—S. of town.
Water.—From stream, unlimited.
Fuel.—Cut, 4 tons.
Supplies.—Of all sorts, unlimited.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		29	PULLAMPADI.—8 m. 0 f. Metalled road, but unfit for motors.
		±78 m. 3½	p. (4,211). Country flat and open. Cross the Nandiyar river, unbridged, 120', at 6 m., fordable. 2 m. <i>nala</i> , 80', brick bridge. Puvalur (4,275). 5 m. Valanur (1,875). <i>Camping-ground</i> .—12 acres N. of town. <i>Fuel</i> .—Notice required. <i>Fodder</i> .—Grazing within 3 m. <i>Supplies</i> .—(With notice.) Grain for 1,000 men for 1 month. Sheep 200; goats 200.
		30	KILAPALUVUR.—13 m. 5 f. Road metalled; but unfit for motors.
		292 m. 0½ f.	Country flat and open. Cross road to Tanjore. Post and Telegraph office at Aryalur 7 m. Road No. 20 crosses here. 2 m. Vadugapetti (2,317). 4 m. Kallagudi (2,775). 4½ m. <i>nala</i> , 100', fordable. 7 m. <i>nala</i> , 100', fordable. 7 m. Kilarasur (2,676). 7¾ m. <i>nala</i> , 200', fordable. 8½ m. Kallagam. (2,676) 12 m. Mellapuliya (621). <i>Camping-ground</i> .—5 acres, in tope E. of Toll-gate. <i>Water</i> .—From 3 tanks and wells for 2,000 men and 1,000 animals. <i>Fuel and Fodder</i> .—Supplies on notice.
		31	VILANAKUDI.—11 m. 0 f. Road gravelled; but unfit for motors.
		303 m. 0½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		32	Cross the Mardiyur river, unbridged, 264', fordable except in flood. 2 m. <i>nala</i> , fordable, 20'. 3 m. Poggar (1,847). Peddipalayam (1,754). 10 m. <i>nala</i> , 66', fordable. <i>Camping-ground</i> .—300 acres E. of village. <i>Water</i> .—Plentiful, from a tank and well. <i>Fuel</i> .—Obtainable from a forest near. <i>Supplies</i> .—Notice required.
		311 m. 1½ f.	UDAIYARPALAIYAM.—8 m. 1 f. Road gravelled, but unfit for motors. Country flat and open. Headquarters of a Sub-District. Route No. 31 here. 1 m. <i>nala</i> , 120', fordable. 2 m. <i>nala</i> , 100', fordable. 2½ m. Nachiurpetti (470). 3 m. Managudi (335). 5 m. Thathanur (4,270'). <i>Camping-ground</i> .—Available in groves. <i>Water</i> .—From 2 tanks and 6 wells, for 5,000 men and 2,000 animals. <i>Fuel</i> .— <i>Fodder</i> .— <i>Supplies</i> .—Notice required.
		33 316 m. 1½ f.	JAYANKONDA.—Of. 5 m. Road gravelled, but unfit for motors. Country flat and open. GHOLAPURAM.—Route No. 31 joins here. 1½ m. Kadidupperumal (256). 2½ m. Tulamankurchi (214'). 3½ m. Suviumanner (270). <i>Camping-ground</i> .—Fair. <i>Water</i> .—From 1 tank and 10 wells, for 5,000 men and 2,000 animals. <i>Fuel</i> .—Cut, obtainable with notice. <i>Fodder and Supplies</i> .—Available with notice.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		34	GOVINDARAJAPET.—16 m. 0 f. Road gravelled, fit for wheeled transport. Country cultivated. Cross road to Kumbakonam. Cross unbridged stream at 3 m. and 1 bridged at 8 m., fordable. A. 7½ m. a turn N. is made. At 1 m. Pappakudi (3.540). 4 m. Meenaseerutti (3.102). 6 m. Muthuserpamadam (2.002). 9½ m. Thalkuthalamudu (2.541). 12 m. Vemlinkudi (1.272). <i>Camping-ground.</i> —Small, N. E. of village. <i>Water.</i> —For 500 men and animals. <i>Fuel.</i> —Can be cut. <i>Fodder.</i> —Grazing close to village for 100 animals. <i>Supplies.</i> —Grain for 500 men and 200 animals for 2 days. Sheep 100 ; goats 25.
		152 m. 1½ f.	
		35	SHATLATOPE.—7 m. 6 f. Road fit for wheeled transport. Country cultivated. At 2½
		339 m. 7½ f.	m. cross a stream, bridged. 5 m. Nangudji (872). 6 m. Kumatekudi (537). <i>Camping-ground.</i> —Small, E. of village. <i>Water.</i> —Supply unlimited, from Vellar river. <i>Fuel.</i> —Can be cut. <i>Fodder.</i> —Grazing close to village for 100 animals. <i>Supplies.</i> —Grain for 500 men and 200 animals for 2 days. Sheep 100 ; goats 25.
		36	VADAKOTTU.—12 m. 2½ f. Metalled road, (2,500). generally fit for motors, liable to be damaged by floods.
		357 m. 2 f.	Country cultivated. Route No. 32 is crossed at this stage.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>Cross 2 streams, bridged and fordable. The river is unfordable during heavy rains for one or two days. 6 m. Maruvai (500). 8 m. Parvatipuram (1,350). 10 m. Sirakuppam (1,100). 11 m. Paravanur R., bridged.</p> <p><i>Camping-ground</i>.—None recognised.</p> <p><i>Water</i>.—From tank and wells, unlimited.</p> <p><i>Fuel</i>.—Unlimited, from Forest Reserve near.</p> <p><i>Fodder</i>.—A little grazing available.</p> <p><i>Supplies</i>.—Should be brought from Panruti.</p>
		37	<p>PANRUTL.—11 m. 3 f. Road generally fit for b. p. t. r. (10,000). For first six miles</p>
		363 m. 5 f.	<p>jungle, thence cultivation. Route No. 19 crosses here. 8 m. Panikuppam (700). 10½ m. cross the Gadilam river, unbridged, 80 yds., fordable except after heavy rain.</p> <p><i>Camping-ground</i>.—No recognised ground, but space for 1 battalion available near by.</p> <p><i>Water</i>.—Unlimited, from river and wells.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—A limited amount of grazing available.</p> <p><i>Supplies</i>.—Grain in large quantities. Oxen, sheep, goats and vegetables can be collected from villages in the vicinity.</p>
		38	<p>VILLIANUR.—7 m. 0 f. Gravelled road, unfit for r. (2,149). motors, but fit for wheeled transport.</p> <p>R. Pennar at 5 m., unfordable during floods.</p> <p>1 m. Angisittipalayam (2,620). 3 m. Lakhiminarayampuran (2,279). Kumbakottai (2,055). 5 m. Pulavanur (2,050). 6 m. Ponnaiyar river ½ m., fordable.</p>
		370 m. 5 f.	

ROUTE NO. 9.

AUTHORITIES.		No. of stage and total distance.	
Civil	Military		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.			
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			
		39	<p><i>Camping-ground.</i>—40 acres W. of village. <i>Water.</i>—For 2,000 men and animals. <i>Fuel and Fodder.</i>—Nil. <i>Supplies.</i>—Oxen 330; sheep 380; goats 305.</p>
		382 m. 1 f.	<p>VIKRAVANDI.—11 m. 4 f. Gravelled road, <i>b. p. r.</i> (3,000). unfit for motors, but fit for wheeled trans- port. Routes Nos. 23 and 33 cross at this stage. 3 m. Kolianur (3,000). 8 m. Pambai river, 300', bridged, fordable in dry weather 10½ m. Vikravandi river, 150', bridged, fordable in dry weather. <i>Camping-ground.</i>—20 acres N. of village. <i>Water.</i>—Sufficient for 1,000 men and 500 ani- mals in the rainy season. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing for 200 animals 1 m. from village. <i>Supplies.</i>—Grain for 500 men and 250 animals at 14 days' notice.</p>

ROUTE No. 9 (1).

FROM CHANGANACHERRY TO PERAMBAVUR.

Road metalled and bridged, practicable at all seasons.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9 (1).
Civil.	Military.		
RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	CHANGANACHERRY.— <i>b. p. t.</i>
		1	KOTTAYAM.—10 m. 0 f. <i>p.</i>
		10m. 0f.	
		2	PERAMBAVOOR.—47 m. 0f. Cross the Muva- <i>p.</i> tupurzha river, un- bridged.
		57 m. 0f.	

ROUTE No. 9 (2).

FROM VALUR TO KOTTAYAM.

Road metalled and bridged, practicable at all seasons; from Kottayam there is communication by boat to Quilon, Cochin, etc.

Direction.—West.

RESIDENT IN TRAVANCORE, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON	..	VALUR OR WARUR.— <i>b.</i>
		1	KOTTAYAM.—17 m. 0f. <i>p. t.</i>
		17 m. 0f.	

ROUTE No. 9 (3).

FROM PERIYAKULAM TO KODAIKANAL.

Epitome.—As far as the foot of the hills, the road is good and practicable for wheeled traffic at all seasons; thence there is a track ascending the pass, in some places very steep and practicable only for foot passengers and baggage animals. A new pass is being made from Atur, which may or may not be practicable for wheeled traffic. Particulars concerning this pass should be obtained from the Executive Engineer, Public Works Department, Madura.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9 (3).
Civil.	Military.		
COLLECTOR OF MADURA, MADURA	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PERIYAKULAM— <i>b. p. t.</i>
		1	SHEMBAGANUR.—13. m. 0 f. <i>p. t.</i>
		13 m. 0 f.	
		2	KODAIKANAL.—3 m. 0 f. <i>p. t.</i>
		16 m. 0 f.	

ROUTE No. 9 (4).

FROM BATLAGUNDU TO PALLAPATTI.

Road metalled and bridged and practicable at all times.

Direction.—East.

COLLECTOR OF MADURA, MADURA.	G. O. C., MADRAS DISTRICT, WELLINGTON.	...	BATLAGUNDU.— <i>Vide</i> Route No. 9, stage N. <i>b. p. t.</i> 19.
		1	PALLAPATTI.—11 m. 0 f. A road from Ammayanayakanur (3 m. distant) joins this road at the 10th mile.
		11 m. 0 f.	

ROUTE No. 9 (5).

FROM TIRUMALAVADI TO PULLAMPADI.

Road gravelled and partially bridged, practicable at all seasons.

Direction.—North-West

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9 (5).
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	TIRUMALAVADI.—(On the river.)
		1	PULLAMPADI.—11 m. 4f.
		11 m. 4f.	p.

ROUTE No. 9 (6).

FROM PANRUTI TO MANALURPET.

Length.—37 m. 2 f. 4 stages.

Road sandy, difficult at all times, as far as Tirukoilur, thence partly gravelled and practicable for carts at all seasons.

Direction.—North-West

COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PANRUTI.— <i>Vide</i> Route No. 9, stage 37, b. p. t. r.
		1	ARASUR.—9 m. 3 f. Cross the Malattar river, unbridged.
		9 m. 3 f.	
		2	TIRUVENNANALLUR.—5 m. 2 f. Road follows the right bank of the Malattar river.
		14 m. 5 f.	p.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 9 (6).
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	3	TIRUKOILUR.—14 m. 0 f. Road follows the <i>p. t. r.</i> right bank of the Malattar river.
		28m. 5f.	
		4	MANALURPET.—8 m. 5 f. Cross the Pennar <i>p.</i> river, unbridged.
		37m. 2f.	

ROUTE NO. 10.

FROM PALAMCOTTAH TO MADURA.

Length.—98m. 2f.

10 stages.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—Direction N.N.E. The road is metalled and bridged, with the exception of the Kanniseri river, which is, however, practicable at all seasons.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 10.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, TINNEVELLY.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PALAMCOTTAH.— <i>Vide</i> Route No. 1, final b. p. t. r.
		1	PANDARAKOLAM.—7m. 4f. Metalled road, (100'). fit for motors. Country cultivated.
		7m. 4f.	3 m. stream, 20 yds., bridged. 3½ m. cross railway. 4 m. Narannulpuram (2,745'). Camping-ground.—1,210 yds. × 484 yds. E. of village. Water.—For 500 men and 300 cattle, from a well in the Kazhi Khan Chattram, supply halved in summer. Fuel.—Plentiful from Tinnevelly railway station. Supplies.—Grain can be got at a week's notice.
		2	KAITAR.—11m. 3f. Metalled road, fit for b. (3,955'). motors. Country cultivated. 4½ m. pass Gangaikondan, from which South Indian Railway Station is 1½ m. distant. At 7 m.
		18m. 7f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 10.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, TINNEVELLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		3	cross Chittar river, bridged, 100 yds. 7½ m. Sannandapudukudi (456). 9 m. <i>nala</i> , 44 yds., bridged. <i>Camping-ground</i> .—550 × 220 yds. near the travellers bungalow. <i>Water</i> .—From 70 wells, for 500 men and 2,000 cattle, except in dry years, when only half or quarter of the quantity will be available. Only 3 of the wells are fit for drinking water. <i>Fuel</i> .—20 tons, stacked. <i>Fodder</i> .—300 acres grazing 1 m. from village; for 1,000 animals. Sheep 200; goats 200. Vegetables 100 maunds.
		28 m. 7 f.	EDDASAVEL.—10 m. 0 f. Metalled road, fit (1,867). for motors. Country cultivated. Cross 8 <i>nalas</i> , all bridged. 1½ m. Puthur. 5½ m. Savalapuri (534). 6½ m. Thullavarapalayam (667). 7½ m. Vellichairi (2313). A metalled road runs to Sankaranainarkoil on Route No. 3 (4). <i>Camping-ground</i> .—Near the local fund chattram 1,100 yds. × 440 yds., also north of Savenlapuri 220 yds. × 88 yds. <i>Water</i> .—From a tank and well, for 500 men. <i>Fuel</i> .—20 tons, stacked. <i>Supplies</i> .—Grain <i>nil</i> . Oxen 30; sheep 200; goats 100.
		4	KOILPATL.—8 m. Metalled road, fit for b.p.t. r., (5,016). motors. Country cultivated. South Indian Railway Station. Cross 6 <i>nalas</i> , all bridged. 4 m. Nalatroputur (1,977).
		36 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 10.
Civil.	Mili- tary.		
COLLECTOR OF TINNEVELLY, TINNEVELLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		5	<p>6½ m. Maniachi (550). At 7 m. cross the railway line. A metalled road 9½ m. long runs to Etaiyapuram on main Route No. 5, stage No. 3.</p> <p><i>Camping-ground</i>.—N. of town 220 yds. × 83 yds., also 1,650 × 660 yds. near the town.</p> <p><i>Water</i>.—From 3 wells and 2 tanks, for 500 men and 200 cattle, at all times.</p> <p><i>Fuel</i>.—50 tons, stacked.</p> <p><i>Supplies</i>.—Oxen 80; sheep 100; goats 50.</p>
		50 m.	<p>SATTUR.—13 m. 1 f. Metalled road, fit for <i>b.p. t.r.</i> (6,400) motors. Country cultivated. South Indian Railway Station. Headquarters of Tahsildar and Divisional officers. A medical dispensary. Four cotton factories. A metalled road 24¾ m. long runs from here to Surilliputur on Route No. 4, stage No. 11. 7 m. Nalli (1,200). 11½ m. cross the Satur river, bridged, can carry heavy guns.</p> <p><i>Camping-ground</i>.—About 2 acres. S. of town.</p> <p><i>Water</i>.—From springs dug in the bed of the river, for unlimited numbers.</p> <p><i>Fuel</i>.—500 tons, stacked.</p> <p><i>Fodder</i>.—Grazing for 400 animals along river bank.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 animals at 5 days' notice. Sheep 300; goats 300.</p>
		6 58 m. 4 f	<p>VAICHAKKARAPATTI.—8 m. 4 f. Road met- r. (1,000). alled, fit for motors. Country cultivated.</p> <p>2 m. Venkatachelapuram river, bridged. 4 m. Veppolaipatti Chattram (849). Cross the</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 10.
Civil.	Military.		
COLLECTOR OF TINNEVELLY, TINNEVELLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.	7	<p>Kanniseri river, unbridged, 476', at 7 m., unfordable during heavy floods in rainy season. <i>Camping-ground</i>.—About 2 acres S. of village. <i>Water</i>.—From river and wells, for any number. <i>Fuel</i>.—Plentiful. <i>Fodder</i>.—Grazing in any quantity. <i>Supplies</i>.—Grain for 200 men and 100 animals at 10 days' notice.</p>
		67m. 0f	<p>VIRUDUPATI.—8 m. 4 f. Road metalled, b.p. t.r. (21,000). in fair condition only, fit for motors. Country undulating, well cultivated and wooded, Headquarters of Deputy Tahsildar. South Indian Railway Station. At 1 m. S. of town a bridged river, 549', dry during major portion of the year. Bridge not fit to carry heavy guns. <i>Camping-ground</i>.—About 2 acres N.W. of town. <i>Water</i>.—From wells, for about 1,000 men and 400 animal; unlimited water for animals from 6 ponds in wet season only. <i>Fuel</i>.—1,000 tons, stacked. <i>Fodder</i>.—Straw available in any quantity. <i>Supplies</i>.—Grain for 1,000 men and 500 animals at 5 days' notice. Sheep 200; goats 200.</p>
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.	8	<p>KALLIGUDI.—7m. 0f. Metalled road, unfit for p.r. (3630). motors during rains. Country cultivated, 4 m. Usilampet (266). <i>Camping-ground</i>.—No authorised site. <i>Water</i>.—300 men and 100 animals. <i>Fuel</i>.—Obtainable. <i>Supplies</i>.—Oxen 100; sheep, 200; goats 200. Vegetables 10 lbs.</p>
		74m. 0f	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 10.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	9	TIRUMANGALAM.—9m. 2f. <i>Vide</i> Route <i>b.p.r.</i> No. 4, final stage. Road unfit for motors during rains. 4 m. Seraracottai (2,027). Cross Kovendanadi, bridged.
		83 m. 2f.	
		10	MADURA.—15m. 0f. <i>Vide</i> Main Route No. <i>b.p. t.r.</i> V, stage 8. Metalled road, unfit for motors during rains.
		98 m. 2f.	

ROUTE No. 10 (1).

FROM TIRUMANGALAM TO SHOLAVANDAN.

Road metalled throughout, but unbridged.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 10 (1).
Civil.	Military.		
COLLECTOR OF MADURA, MADURA. G. O. C. MADRAS DISTRICT, WELLINGTON.			TRIUMANGALAM.— <i>b. p. r.</i>
		1	KOKALAM.—8 m. 6 f.
		8 m. 6 f.	
		2	SHOLAVANDAN.—6 m. 5 f. Cross the Vaigal <i>p.</i> river, unbridged.
		15 m. 3 f.	

ROUTE NO. 11.

FROM TONDI TO CALICUT.

Length.—287½ m.

26 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epit. me.—Direction N.W. This road is metalled throughout, except the first two stages, and is also bridged, with the exception of a few streams between Dindigul and Palghat and the river Thutha and Anakayam between Palghat and Manjeri; the streams are impassable for a day or two during high freshets. The rivers are provided with ferries. Otherwise the road is practicable at all seasons of the year. From Manjeri to Calicut, the country traversed is hilly in places and the gradients are steep, but not sufficiently so to impede traffic.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	TONDI.— <i>Vide</i> Route No. 5, stage 15. <i>b.p.t.</i>
		1 11 m. 0 f.	NILAMALAGI.—11 m. 0 f. Sandy track, fit YAMANGALAM for bullock carts (870). only. Country open and cultivated and scrub jungle. Cross 2 <i>nalas</i> , unbridged, fordable. 5 m. Vattanam (920). 8 m. Navalar (200). Pananichayali (450). 10 m. Kattivayal (365). <i>Camping-ground.</i> —To any extent, on both sides of the river. <i>Water.</i> —Abundant. <i>Supplies, etc.</i> —Nil.
		2 21 m. 4 f.	HANUMANTHAKUDI.—10 m. 4 f. Sandy (660). track as for last. Country, open and cultivated and scrub jungle.

ROUTE NO. 11.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF MADURAI, GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>Cross the Uppar river, unbridged. At 2 m. Peruva, Kottar (470). 3 m. Mangalakudi (820). 6 m. Palangulam (347). <i>Camping-ground</i>.—To any extent, south of road. <i>Water</i>.—From river and springs, abundant. <i>Supplies</i>.—Must be obtained from Devakottah, about 4 m. distant.</p>
		3	<p>AMARAVATHI.—10 m. 6 f. Road metalled, fit for motors. Country jungly and open alternately. 4 m. Devakottar (13,330). 6 m. Mulikundi. 10½ m. Amarapetta (390). <i>Camping-ground</i>.—30 acres S. of village, and more ground further on, if required. <i>Water</i>.—Unlimited. <i>Fuel</i>.—Can be cut as required. <i>Supplies</i>.—Must be procured from Karaikudi with notice.</p>
		32 m. 2 f.	
		4	<p>TIRUPATTUR.—14 m. 0 f. Metalled road, fit p. t. for motors. Country flat, open and jungly. At 10 m. Thennara (354). 12 m. Nanamalpatti (410). See Route No. 7, stage No. 8.</p>
		46 m. 2 f.	
		5	<p>MARUDIPPATTI.—8 m. 0 f. Metalled road, fit for motors for first 6 m. only, then bad. Country flat and open and jungly. <i>Camping-ground</i>.—1 m. east. <i>Water</i>.—Scarce during hot season. <i>Fuel</i>.—Obtainable. <i>Supplies</i>.—Nil.</p>
		54 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	6	KOTTAMPATTY.—11 m. 0 f. Metalled road, fit <i>b.p.</i> for motors. Country cultivated. <i>Vide</i> Main Route No V, Stage No. 11. 2 m. Pandangudi (604). 3½ m. Chokkalingapuram (3,925). 5½ m. Singampidari. 7 m. Sivapuri. 8 m. Kalapur. 9 m. Mattiyur, where water and supplies are available and a camping-ground on E. and N. of road.
		65 m. 2 f.	
		7	NATTAM.—10 m. 3 f. Metalled road, fit for (7,000) motors. Country cultivated. At 6 m. Samadrapatti (1,450). 8 m. Errakapatti (2,170). Cross a stream, fordable. <i>Camping-ground</i> .—About 5 acres N. of the town. <i>Water</i> .—2 tanks and 5 wells, for 500 men. <i>Fuel</i> — } From Forest Reserve 2-3 m. distant. <i>Fodder</i> .— } <i>Supplies</i> .—Grain for 500 men and 100 animals for 1 week. Sheep 50; goats 20. Vegetables, 4 cart loads daily.
		75 m. 5 f.	
		8	SHANARPATTI.—12 m. 4 f. Road fit for (1,058). motors, but not in good order. Country cultivated, except Forest Reserve 6-9 m. distant. Cross 3 streams, unbridged but ford- able, all <i>nalas</i> bridged. 5½ m. to 7½ m. Karan- vipetti (1,563). 8½ m. Gopalupatti (2,830). 10½—11½ m. Kanriapur (1,322).
		88 m. 1 f.	

AUTHORITIES.

Civil.	Military.
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No. of stage and total distance.

ROUTE NO. 11.

COLLECTOR OF MADURA, MADURA.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

Camping-ground.—About 40 acres E. of village; when not in cultivation.

Water.—For 800 men and 200 animals.

Fuel.—From Forest Reserve 3 m. distant.

Supplies.—Grain from weekly (Thursday) market at Errakolapuram, $1\frac{1}{2}$ m. for 2,300 men and 250 horses, for 1 day. Sheep 30; goats 50.

9

DINDIGUL.—9 m. 3 f. Metalled road, not in b. p. t. r. good repair, fit for wheeled transport.

97 m. 4 f.

Cross numerous streams, 3 of which are unbridged but fordable. *Vide* Route No. 6, stage No. 14. $\frac{1}{2}$ m. Kosavapatti (2,985). 1 m. Vellampatti (1,240). 2 m. Virapatti (218). 3 m. Kovaragapatti (2,127). 5 m. Neddapatti.

10

PALKANUTH.—15 m. 0 f. Road fit for motors; (5,155). through open, cultivated and flat country.

112 m. 4 f.

At 6 m. Manikaraiyar river, bridged.

Camping-ground.—5 acres.

Water.—500 men and 500 animals.

Fuel.—Obtainable.

Supplies.—Grain for 200 men for 2 days. Oxen 10; sheep 50; goats 50.

11

CHATRAPATTIL.—10 m. 4 f. Metalled road, fit b. p. (2,840). for motors. Country

123 m. 0 f.

hilly and cultivated. Ascend Virupachi Hill. The hill, commencing at 9 m., is only 500 yds. in length, and has a mean gradient of 1 in 18.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		At 1½ m. Athikomhaioddam (1,428). 3 m. Chatram (3,298). 7m. Veerupakka (2,044). 7½ m. Nangangi River, bridged. <i>Camping-ground</i> .—4 acres W. of village; another 20 acres also available. <i>Water</i> .—For about 1,000 men and animals. <i>Fuel</i> .—Obtainable. <i>Supplies</i> .—Grain for 100 men and 50 animals for 1 week. Oxen 100; sheep 200; goat 200. Vegetables in small quantities.
		12	PALNI.—10m. 4 f. Metalled road, fit for b. p. t. (13,210). Country flat, open and cultivated. Route No. 15 joins here.
		133 m. 4 f.	2m. Sindalavadanpetta (1,699). 5m. Kana-kampetta (1,465). 6 m. Pachalana kenpetta (1,235). 7 m. Ayakodi (11,500). 9 m. Sivaginpetta (643). <i>Camping-ground</i> .—Good. <i>Water</i> .—For 6,000 men and animals. <i>Fuel</i> .—Obtainable. <i>Supplies</i> .—Grain for 1,000 men and 500 animals for 1 week. Oxen 20; sheep 300; goats 300. Vegetables 200 lbs.
		13	MADUTUKALAM.—13 m. 8 f. Metalled (2,540). Country flat and cultivated. Cross the Shanmugai and the Aravati rivers, bridged. 2½ m. Kalayambuthur (5,465). 4½ m. Chinria Kalayanbuthur (1,736).
		147 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p>9m. Talayuthur (3,620). 11 m. Mapputhur. 12 m. Vayalur (together, 1830). <i>Camping-ground</i>.—15 acres N. of village and 100 acres W. <i>Fodder</i>.—No grazing, but straw for 1,000 cattle obtainable. <i>Supplies</i>.—Grain, rice only obtainable. Oxen 20; sheep 100; goats 100. Vegetables <i>nil</i>.</p>
			<p>14 UDAMALPETT.—9m. 0f. Metalled road, fit for motors. <i>b.p.t.</i> (10,580). Country open, flat and cultivated. Route No. 16 joins here. Junction of Dhalli Road. 2 m. Krishnapuram (880). 2½ m. Narasingapuram (355). 5 m. Palapampetta (500). <i>Camping-ground</i>.—About 13 acres N.E. of town. <i>Water</i>.—Good, from wells, unlimited. <i>Fuel</i>.—50 tons. <i>Supplies</i>.—Rice and grain available in large quantities. Oxen 100; sheep 200; goats 200. Vegetables in any quantity.</p>
COLLECTOR OF COIMBATORE, COIMBATORE.	COLLECTOR OF MADURA, MADURA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p>15 KUMANGALAM.—7m. 4f. Metalled road, fit for motors. Country flat and cultivated. At 3 m. Polanginur (664). 5m. Andigur (1,300). Cross several streams, bridged. <i>Camping-ground</i>.—Uncultivated fields only. <i>Water</i>.—For 250 men and 50 animals, from wells. <i>Supplies</i>.—Can be obtained from Udamalpet.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUTTA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	16	POLLACHI.—10m. 4f. Metalled road, fit for motors. Country flat and cultivated. Route No. 21 joins here. 2½m. Kolaryatti (913). 5½m. Thippampatti (1,090). 7½m. Oonjavalampatti (881). Cross 4 streams bridged.
		174m. 4f.	<i>Camping-ground</i> .—High ground N. of town, 9 acres. <i>Water</i> .—For 500 men and 250 animals. <i>Fuel</i> .—2,000 maunds. <i>Supplies</i> .—Grain for 500 men and 250 animals for 2 weeks. Oxen 200; sheep 50; goats 500. Vegetables 100 maunds.
		17	KOLINJAMPARA.—13m. 7½f. Metalled road, (4,950). fit for motors. Country open and cultivated. Cross the Coregoar River, sometimes unfordable for 3 or 4 days at a time.
		188m. 3½m.	<i>Camping-ground</i> .—1 m. S.W. of village, also at Coregoar (3 m.) <i>Water</i> .—From Coregoar River, canals and wells. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Obtainable. <i>Supplies</i> .—Grain for 5,000 men and animals for 1 week. Sheep and goats in large quantities.
		18	PALGHAT.—14m. 0f. Metalled road, fit for motors. Country flat and cultivated.
		202m. 3½f.	

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 11.

COLLECTOR OF MALABAR, CALICUT.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

19

217m.
3½f.

Railway Station is in the centre of the town.
Route No. 13 crosses and 30 joins here.
At 6m. Para (1,000).
Camping-ground.—1m. sq., near fort.
Water.—Supply limited.
Fuel.—Obtainable.
Supplies.—Grain for small number of men.
Other supplies the same.

FROM THE FORT LAKKIDI.—15m. Of.
b. p. r. (2,165). Metalled road,
fit for motors.

At 6m. pass Parli railway station. Lakkidi
r. s., 1½m. due S. of village. Route No. 29
joins here. At 14m. Perur (1,923).

Camping-ground.—½ sq. m. E. of town.
Water.—Tanks and wells, 1,000 men and 500
animals.

Fuel.—50 cartloads.
Fodder.—Grazing: 100 acres. 1m. distant, for
500 animals.

Supplies.—Grain for 500 men and animals for
2 days. Oxen for 50; goats 25. Vegetables,
500 men can be supplied.

20

223m.
3½f.

OTTAPALAM.—6m. Of. Road fit for motors.
p. t. r. (3,730). Country flat and
cultivated. Route No. 29 joins here. Deputy
Tahsildar's office. At 3m. Palapuram (4,200).
5m. Ariyurthekkumunuri (3,736). Cross
a stream, bridged.
Camping-ground.—1 sq. m. W. of town.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Water</i>.—Tanks and wells, 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—100 cartloads.</p> <p><i>Fodder</i>.—Grazing: 200 acres. 2m. distant, for 500 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 animals for 3 days. Oxen 100; goats 50. Vegetables for 1,000 men.</p>
		21	<p>CHERPALCHERI.—11 m. Of. Metalled road, fit p. b. (3,930'). for motors. Country hilly and cultivated.</p> <p>Steep gradient at 8.3 miles from Ottapalam; also when entering Cherpalcheri. At 8 m. Thrikkideri (3,670).</p> <p><i>Camping-ground</i>.—24 acres E. of village.</p> <p><i>Water</i>.—Scanty in dry weather, normally sufficient for 100 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 50 acres 2 m. distant: for 500 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 animals for 2 weeks (rice only). Oxen 15; goats 20.</p>
		223 m. 3½ f.	<p>ANGADIPURAM.—10 m. Of. Metalled road, fit b. p. (2,750). for motors. Country open and cultivated.</p> <p>Cross Thutha river, unbridged, fordable 2 ferry boats. Tahsildars' office at Perintalmania. Routes Nos. 22 and 30 cross here. At 3 m. Parab (1,276). 4 m. Elathara (365). 5 m. Anamangad (716). 6 m. Chethanakurussi (460). 8 m. Eravinamgalam (1,242). 9 m. Pathaikara (1,114). 10 m. Peruntalmanna (3,735).</p>
		22 244 m. 3½ f.	

AUTHORITIES.		No. of stages and total distance.	ROUTE NO. 11.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground.</i>—Between Perintalmania and Angadipuram on N. of road, also several acres E. of village.</p> <p><i>Water.</i>—Canal and two tanks, for 1,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—About 2,900 lbs. can be had at short notice.</p> <p><i>Fodder.</i>—Grazing: 100 acres $\frac{1}{2}$ m. from village; for 500 animals.</p> <p><i>Supplies.</i>—Grain for 1,000 men and animals for 1 week. Oxen 50; goats 100. Vegetables 500 lbs.</p>
		23	<p>MANJERI.—14 m. Road metalled and fit b. p. t. (5,965). for motors. Country open and cultivated.</p> <p>River Anakayam, fordable, except in flood, two boats available; ferry.</p> <p><i>Camping-ground.</i>—5 acres at 2 m. S. of village near ferry.</p> <p><i>Water.</i>—From river.</p> <p><i>Fuel.</i>—Obtainable with notice.</p> <p><i>Fodder.</i>—Grazing nil, but grass procurable in August, September and October.</p> <p><i>Supplies.</i>—None locally, would have to be col- lected.</p>
		258 m. 3 f.	
		24	<p>KONDOTTI.—12 m. 5 f. Road metalled and b. p. (6,635). fit for motors. Country mostly cultivated. Route No. 30 joins here. 2 m. Nerukara (2,230), 4 m. Valluvambram (3,370). 8 m. Moragur (3,875). 10 m. Bediyarup (6,222).</p>
		270 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—For 1,000 men and animals obtainable.</p> <p><i>Fodder.</i>—Grazing in rains only.</p> <p><i>Supplies.</i>—Grain 1,000 men and animals. Oxen 40; goats 30.</p>
		25	<p>FEROKE.—10 m. 5 f. Road good and fit for p. t. (9,845). motors, partly me- talled and partly gravelled; country mostly cultivated. Cross Beypore river by Railway bridge. 3 m. Andiyurkum (2,278). 5 m. Cherukava (3,310). 8 m. Velipuram (5,415).</p> <p><i>Camping-ground.</i>—5 acres N. of village.</p> <p><i>Water.</i>—Wells, for 1,000 men and 100 animals.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 100 animals for 15 days. Oxen 10; goats 50. Vegetables on Wednesdays.</p>
		230 m. 5 f.	
		26	
		237 m. 4 f.	<p>CALICUT.—6 m. 7 f. Vide Route No. 2, stage b. p. t. r. No. 32. Road crosses Kullaiback-water over Railway Bridge. Road metalled and gravelled. Country mostly cocoanut gardens. At 1 m. Cherrumannur (4,756).</p>

ROUTE No. 11 (1).

FROM AMARAVATHI TO LETCHIMPATNAM.

Road metalled.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11 (1).
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. C. MADRAS DISTRICT, WELLINGTON.		AMARAVATHI.— <i>Vide</i> Route No. 11, stage No. 3.
		1	LETCHIMPAT.—5 m. 0 f. Camping-ground with water-supply on both sides of the road. Supplies must be procured from Karai- gudi, 4 miles distant.
		5 m. 0 f.	

ROUTE No. 11 (2).

FROM DHULLY TO PALLADAM.

Metalled road, good and practicable at all seasons of the year.

Direction.—North.

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 11 (2).	
Civil.	Military.			
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			DHULLY. <i>p.</i>	
		1	UDAMALPET.—7 <i>m.</i> 1 <i>f.</i> A fairly large town; the headquarters of the sub-district. Water, supplies, etc., are procurable.	
		7 <i>m.</i> 1 <i>f.</i>		
		2	PERIAPETTI.— 12 <i>m.</i> 6½ <i>f.</i>	
		19 <i>m.</i> 7½ <i>f.</i>		
		3	MANTHIRIPALAYAM. 10 <i>m.</i> 0 <i>f.</i>	
		29 <i>m.</i> 7½ <i>f.</i>		
		4	PALLADAM.—7 <i>m.</i> 2 <i>f.</i> Large village. Headquarters of the sub-district. Water procurable at all times.	
		37 <i>m.</i> 1½ <i>f.</i>		

ROUTE No. 11 (3).

FROM POLLACHI to PERUNDURAI.

Length.—65 m. 2½ f.

5 stages.

Road metalled throughout and passable at all seasons of the year.

Direction —North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11 (3).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		POLLACHI.—Headquarters of a sub-division. <i>b.p.t.</i> There is a large hospital in this place. Water plentiful.
		1	NAGAMAM.—9 m. 4 f. A large village. <i>p.</i>
		9m. 4f.	
		2	PALLADAM.—21 m. 4 f.—Headquarters of a sub-division. <i>p.t.</i>
		31m.0f.	
		3	TIRUPUR.—8 m. 6 f. A large village and railway station. <i>b.p.t.r.</i>
		39m.6f.	
		4	KUNNATUR.—13 m. 4½ f. <i>p.</i>
		53 m. 2½ f.	
		5	PERUNDURAI.—12 m. 0 f. <i>b.p.</i>
		65m.2½f.	

ROUTE No. 11 (4).

FROM PONACHI SADDLE (ON THE ANAMALAI HILLS) TO POLLACHI.

Road metalled. Fever is very prevalent in the forest from October to June.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11 (4).	
Civil.	Military.			
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		PONACHI SADDLE.	
		1 20m.7f.	POLLACHI.—20 m. 7 f. Cross the Auliyar River, bridged, and several small streams unbridged. <i>b.p.t.</i>	

ROUTE No. 11 (5).

FROM ANAIMALAI TO POLLACHI.

Road bridged and metalled, practicable at all seasons

Direction.—North-East.

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		ANAIMALAI.	
		1 8 m. 0 f.	POLLACHI.—8 m. 0 f. <i>b.p.t.</i>	

ROUTE No. 11 (6).

FROM POLLACHI TO LAKKIDI.

Length.—50 miles.

5 stages.

Epitome.—Cross the Mingara River, unbridged ; road metalled and partly bridged, practicable at all seasons. Country wild, supplies scarce, fever prevalent. This is an alternative for the portion of Route No. 11, from Pollachi to Lakkidi.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11 (6).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		POLLACHI. <i>b.p.t.</i>
		1	MINGARA.—13 m. 4 f.
		13m. 4f.	
		2	KOLLENGODE.—8 m. 0 f.
		21m. 4f.	
COLLECTOR OF MALABAR, CALCUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.	3	KONISHERI.—7 m. 4 f.
		29m. 0f.	
		4	ALATUR.—5 m. 0 f. <i>Vide</i> Route No. 13, stage No. 5.
		34m. 0f.	
		5	LAKKIDI.—16 m. 0 f. Cross the Mingara River, unbridged.
		50 m. 0 f.	Cross the Ponani River, unbridged.

ROUTE No. 11 (7).

FROM KOLLENGODE TO PALGHAT.

Road metalled and partly bridged, practicable at all seasons
country wild; supplies scarce; fever prevalent.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11 (7).
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.		KOLLENGODE. <i>p.t.</i>
		1	TALLAMANGALAM.—10 m. 0 f.
		10 m. 0 f.	
		2	PALGHAT.—12 m. 0 f. <i>b.p.t.r.</i>
		12 m. 0 f.	

ROUTE No. 11. (8).

FROM KONISHERI TO KUDVAYUR.

Partly metalled and bridged, practicable at all seasons.

Direction.—East by North.

COLLECTOR OF MALABAR, CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.		KONISHERI
		1	KUDUVAYUR.—6 m. 0 f.
		6 m. 0 f.	

ROUTE NO. 11 (9).

FROM KONISHERI TO PALGHAT.

Cross the Palghat River, unbridged. Road partly metalled and bridged, practicable at all seasons.

Direction.—North by East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11 (9).
Civil	Military.		
COLLECTOR OF MALABAR, CALICUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.		KONISHERI.
		1	PALGHAT.—11 m. 0 f.
		11 m.	<i>b.p.r.</i>

ROUTE NO. 11 (10).

FROM PARLI RAILWAY STATION TO MANDUR.

Road metalled and bridged throughout: practicable at all seasons.

Direction.—North-East.

PARLI RAILWAY
STATION.

p.r.

COLLECTOR OF MALABAR, CALICUT.	G. O. C. MADRAS DIS- TRICT, WELLINGTON.	1	MANDUR.—3 m. 4 f.
		3m. 4f.	

ROUTE NO. 11 (11).

FROM MANJERI TO WANDUR.

Road fairly passable for carts.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 11 (11).
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.		MANJERI <i>p.t.</i>
		1	WANDUR.—12 m. 4 f <i>b.p.</i>
		12m.4f.	

ROUTE NO. 11 (12).

FROM MANJERI TO QUILANDY.

Road metalled, practicable at all seasons, except for 10 miles beyond Arriakod, where it is a mere track.

Direction.—North-West.

COLLECTOR OF MALABAR, CALICUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.		MANJERI <i>b.p.t.</i>	
		1	ARRIAKOD.—12 m. 0 f	
		12 m. 0 f.		
		2	TAMRACHERI.—19m. 0 f.	Cross the Koda- thay, Irwunji and Arriakod Rivers, un- bridged.
		31 m. 0 f.	<i>b.p</i>	
		3	ULLIAR.—8.m. 0 f.	
		39 m. 0 f.		
		4	QUILANDY.—11 m. 2 f.	Cross the Kaniengod River, unbridged, by a ferry.
		50 m. 0 f.	<i>b.p.t.r.</i>	

ROUTE NO. 12.

RAMNAD TO VALAPADY.

Length.—191 miles.

14 stages.

Authority and date.—General Officer Commanding, 9th Division, July 1918.

Epitome.—From Ramnad to Tirupatūr, the road is very bad, fit for country carts only: the Vaigai River is impassable for a week at a time during heavy floods, which occur two or three times a year.

Thence to Trichinopoly, it is metalled and very good. Beyond that, it is metalled and bridged as far as Murungapatti. The remainder of the road is gravelled and partly bridged, practicable at all seasons. The country from Trichinopoly is poor, and water is scarce in the hot weather.

Direction.—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 12.
Civil.	Military.		
COLLECTOR OF RAMNAD.	G. O. C., MADRAS DISTRICT, WELLINGTON.		RAMNAD.— <i>Vide</i> Route No. 5, stage No. 12. <i>p.t.r.</i>
		1 7 m. 0f.	MUDALUR.—Road fit for country carts only. (673). Country cultivated. Cross the Vaigai river, unbridged, but fordable, except when in flood. At 4 m. Kavanur (1,090). 5m. Perungarai (350). 6 m. Kulattur (640). Camping-ground.—Nil. Water.—From river, tank and wells, for 1,000 men and animals. Fuel.—Obtainable. Fodder.—Grazing for 100-150 animals in the vicinity. Supplies.—Grain <i>nil</i> . Oxen 200; sheep 500; goats 1,000.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 12.
Civil.	Military.		
COLLECTOR OF RAMNAD, MADURAI.	G. O. C., MADRAS DISTRICT, WELLINGTON.	2	<p>NAINARKOIL.—10 m. 0f. Road fit for country carts only. Country cultivated. Cross the Vaigai river as in stage 1. 2 m. Sevinur (648). 2½ m. Nagashi (570). 3½ m. Gangaikondam (1,143). 5 m. Arasadiendal (346). 6 m. Akramasi (1,260). <i>Camping-ground.</i>—Nil. <i>Water.</i>—From tanks and wells, for 500 men and 100 animals. <i>Fuel.</i>—Small quantity can be cut. <i>Fodder.</i>—Grazing in rains only. <i>Supplies.</i>—Grain for 100 animals. Goats 100. Vegetables nil.</p>
		17 m. 0f.	
		3	
		29 m. 0f.	
		4	<p>KANNAMANGALAM.—12 m. 0f. Road fit (470). for country carts only. Country open, mostly cultivated. All <i>nalas</i> bridged. 2 m. Andakudi (370). 3½ m. Vadasai (543) 4 m. Pudur (320). 5 m. Valakkami (240). Tiruvudayapuram (77). 9 m. Nayangudi (4,440). 10 m. Kayangudipudur (1,686). <i>Camping ground.</i>—Nil. <i>Water.</i>—For 250 men and 50 animals. <i>Fuel.</i>—Can be cut in small quantities. <i>Supplies.</i>—Grain nil. 200-300 sheep and goats. Vegetables nil.</p>
		40 m. 0f.	
			<p>KALIARKOIL.—11 m. 0f. Track fit for country carts only. Country low, a little jungle. 3 m. Kilavanur (60). 4½ m. Mangalam (500). 7½ m. Usilanganmoi (80). 9½ m. Velayampatti (40).</p>

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 12.

COLLECTOR OF RAMNAD,
MADURA.POLITICAL AGENT,
PUDUKOTAH,
TRICHINOPOLY.COLLECTOR OF
TRICHINOPOLY.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

5

48 m. Of.

6

62 m. Of.

7

77m.4f.
889m.4f.
9

103m. Of.

At 2 m. a stream, fordable. 3½ m. Mangalam River, unbridged, fordable.
Camping-ground.—About 1 square m, N. of road.
Water.—Sufficient for 5 regiments, from tanks and wells.

Fuel.—About 1 ton.

Fodder.—Grazing: 4 sq. m., near village.

Supplies.—Grain available on market days. Oxen 10; sheep 100; goats 100; Vegetables plentiful.

SIRUVAIYEL.—8 m. Track only through low country, no cultivation, small jungle,

Cross 1 stream, unbridged, fordable.

Camping ground.—10 acres, round village.

Supplies.—Nil.

TIRUPATUR.—14 m. Of. *Vide* Route No. 7, stage No. 8.

p.t. Country: jungle to Kullal, thence high and covered with palmyra trees. No proper road.

TIRUMAYAM.—15 m. 4 f. *p.t.*

PUDUKOTAH.—12 m. Of. *b.p.t.* *Vide* Route No. 8, stages Nos. 1 and 2.

KERANUR.—14 m. 4 f. Gravelled road, fit for motors. Country cultivated, inter-

persed with rocky jungle. 10 m. Rasumbanapatti (with Ammanchatram 11 m. 1,312), 13 m. Kolathur (1,516).

Camping-ground.—1 m., W. of village

Water.—Unlimited supply, except in dry weather

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 12.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	10	<p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing in rains only.</p> <p><i>Supplies</i>.—Grain for 500 men and 300 animals for 5 days. Oxen 100; sheep 250; goats 50. Vegetables for 500 men on market days only.</p>
		121m. 4f.	<p>TRICHINOPOLY.—18m. 4f. <i>Vide</i> Main Route No. V, stage 16. Road for first 10½ miles is gravelled, thence metalled. 3 m. Kalamavur (1,600). 5 m. Nallur (560). 8 m. Mattur (950).</p>
		11	<p>TURAIYUR.—27 m. 0f. Metalled road, fit for wheeled transport, unfit for motors.</p>
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	148m. 4f.	<p>Country cultivated interspersed with rocky jungle. Cross a stream, bridged. 17 m. Peramangalam (2,068). 19 m. Pulivalam (1,607). 21 m. Karetanpatti (1,030). 22 m. Pagalavadi (2,134).</p>
		12	<p>MURUNGAPATTI.—17m. 0f. Road for first 8½ (1,000). m. metalled, thence unmade. Country mostly cultivated. Cross 2 streams, bridged, and several <i>nalas</i>, unbridged, all fordable, 3 m. Sirunathan (540). 5 m. Sikkathambur (4,260). 8½ m. Venketachalapuram (2,140). 12 m. Kuppampatti (1550).</p> <p><i>Camping-ground</i>.—In reserved Forest 1½ m. E. of village.</p>

AUTHORITIES.		No. of stages and total distance.	ROUTE NO. 12.
Civil.	Mili- tary.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	13	MALLIAKARAI.—16 m. 4 f. Metalled road, fit p. (1454). for motors. Country mostly cultivated.
		181 m. 0 f.	Route No. 32 crosses here. At 4½ m. pass Tammampatty (4040). Cross the Tammam- patty, Karippatti and Malliakarai Rivers, unbridged, fordable. 8 m. Naigyampatti (1670). 12½ m. Kiripatti (3052). 14 m. Puthur (200). <i>Camping-ground</i> .—About 50 acres S. and W. of village. <i>Water</i> .—For 1,000 men and 500 animals. <i>Fuel</i> .—Obtainable with notice. <i>Fodder</i> .—Grazing nil, but with notice grass for 100 animals can be supplied. <i>Supplies</i> .—Grain for 1,000 men and 50 animals for 2 or 3 days. Oxen 1,100; sheep and goats 500 each.
		14	VALAPADY.—10 m. 0 f. Road metalled, fit for (2207) b.p. motors. Country swampy to the south and cultivated to the North. Route No. 19 crosses here. Cross 2 streams, unbridged, fordable. 4 m. Themminayu Khanpatti (1052). 7½ Somampatti (1094). Singipuram (2614). <i>Camping-ground</i> .—100 acres N.-E. of village (when uncultivated.) <i>Water</i> .—From wells, for 1,000 men and 200 animals. <i>Fuel</i> .—Obtainable with notice. <i>Supplies</i> .—Grain for 500 men and 50 horses. Oxen 550; sheep 550; goats 500.

ROUTE No. 12 (1).

FROM KANNAMANGALAM TO MELUR.

Road in fair condition as far as Sivaganga, thence metalled and bridged, practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 12. (1).
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. C. MADRAS DISTRICT, WELLINGTON.		KANNAMANGALAM.
		1	SIVAGANGA—14 m. 0 f. <i>Vide</i> Route No. 5 (4). <i>b.p.t.</i>
		14 m. 0 f.	
		2	MELUR.—16 m. 0 f. <i>Vide</i> Main Route No. V, stage No. 10. <i>b.p.t.</i>
		30 m. 0 f.	

ROUTE No. 12 (2).

FROM THE CULVERT NEAR SIRUVAIYEL TO KARAIKUDI.

The existing track is passable at all seasons.

Direction.—North.

		No. of stage and total distance.	NEAR SIRUVAIYEL.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	1	KARAIKUDI—8 m. 0 f. <i>p.t.</i>
		m. 0 f.	

ROUTE No. 12 (3).

FROM TAMMAMPATTY TO TEDAVUR.

Cross the Tammampatty and Anapar Rivers, unbridged. Road wholly gravelled and unbridged, but practicable, except during the rainy season.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 12 (3).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		TAMMAMPATTY.
		1	GANGAVALLI <i>p.</i>
		2	TEDAVUR—14 m. 6 f.

ROUTE NO. 13.

FROM KUTTAPARAMBA TO SALEM.

Length.—192 m. 0 $\frac{3}{4}$ f.

20 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—Direction North-East. To the backwater beyond Kuttaparamba, this is a mere track over heavy sand and never used by carts. At Karupadna, the landing place on the east of the backwater, the main road begins and thence to Palghat it is metalled and partially bridged.

—The Kadram Hill has a mean gradient of 1 in 18. Fever prevails from November to February on the hills, which are covered with dense jungle.

The remainder of the road is also metalled and good, shaded by trees and always practicable, although several unbridged rivers and streams have to be crossed.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13.
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT. BRITISH RESIDENT, COCHIN, TRIVANDRUM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		KUTTAPARAMBA.— <i>Vide</i> Route No. 2, stage b.p. 22.
		1	KARUPADANA.—11 m. 4 f. Metalled road, OR KARAVANNUR fit for all trans- b.p. (300). port. Open, culti- vated country. Cross the back-water by ferry. At 7 $\frac{1}{2}$ m. Iriyalakuda (8,700). <i>Camping ground.</i> —1 acre E. of road. <i>Water.</i> —From a well, for 100 men and animals. <i>Supplies.</i> —Very scarce.
		11 m. 4 f.	
		2	TRICHUR.—10 m. 0 f. Metalled road, fit for all b.p.t. (23,574). transport. Country open and cultivated.
		21 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13.
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.	BRITISH RESIDENT, COCHIN, TRIVANDRUM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	3	<p>At 2 m. Oorgaum (1,500). 3 m. Cherpu (1,500). 5 m. Chenur (1,000). 6 m. Paliserri (500). 8 m. Hanimangalam (800). 9 m. Kurkancherai (300). At 1 m. cross the Karavanner River, 90 yards wide, bridged, fordable. 10 boats available. <i>Camping-ground</i>.—Available round the town. <i>Water</i>.—Plentiful.</p> <p><i>Fuel</i>.—500 cartloads, cut.</p> <p><i>Fodder</i>.—50 acres grazing, near.</p> <p><i>Supplies</i>.—Grain for 2,000 men and 200 animals for 7 days. Oxen 300; sheep 10; goats 400.</p>
		30m. 5f.	<p>PATTIKAD.—9 m. 1 f. Metalled road, fit for all transport. Country open and flat for 2½ miles, thence rough and covered with jungle, hilly at 7th mile. 3 m. Allukad (1,500). 7 m. Tanarchin (500).</p> <p><i>Camping-ground</i>.—Large areas round village.</p> <p><i>Water</i>.—From 30 tanks and 120 wells, for 1,000 men and animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—260 acres grazing 1 m. from village.</p> <p><i>Supplies</i>.—Grain scarce. Oxen 150; sheep 50; goats 200. Vegetables in fair supply.</p>
		42m. 5f.	<p>VADAKANCHERRY.—12 m. 0 f. Metalled road, fit for motors. Country mostly rocks and jungle. Cross 2 canals, bridged. Ascend the Kadran Hill.</p> <p><i>Camping-ground</i>.—Nil.</p> <p><i>Water</i>.—Plentiful in cold weather.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Fuel</i>.—Can be cut 2 m. from village. <i>Fodder</i>.—Grazing abundant. <i>Supplies</i>.—Grain—rice only, for 2,000 men per day. Meat <i>nil</i>.</p>
		5	ALATUR.—7 m. 0 f. Metalled road, fit for p. (4.685). motors. Country mostly cultivated.
		49m. 5f.	2 m. Mangalam (3.018). 4 m. Kavasseri (5,985). At 1 m. Mangalam River, bridged. <i>Camping-ground</i> .—N.-E. of village, for 1,000 men. <i>Water</i> .—Plentiful in cold weather. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing near village. <i>Supplies</i> .—Rice for 2,000 men daily; meat <i>nil</i> .
		6	PALGHAT.—13 m. 0 f. <i>Vide</i> Route No. 11, b.p.t. stage No. 13.
		62m. 5f.	Metalled road, fit for motors. Country open, mostly cultivated. Cross numerous streams, bridged, and the Kamiadi River, unbridged, fordable, boats available.
		7	CONJECODE.—8 m. 0 f. Metalled road, fit for or KANJIKOD motors. Country r. (1,000). mainly cultivated.
		70m. 5f.	Cross the Narugampally River, unbridged (boats available). High freshets render this impassable in rainy season for a day or two, but otherwise road is practicable at all seasons. <i>Camping-ground</i> .— <i>Water</i> .—Abundant from the river, except in very hot seasons, when only about 100 men and animals could be watered.

ROUTE NO. 13.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Fodder</i>.—Grazing in rains only.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 300 animals for 2 months.</p>
			<p>8</p> <p>79m. 1$\frac{1}{2}$f.</p> <p>WALAIYAR.—8 m. 4f. Metalled road, fit for r. (100). Country flat and jungly, cross river, bridged, at 6$\frac{1}{2}$ miles.</p> <p><i>Camping-ground</i>.—No good ground, except at 4 miles short of village.</p> <p><i>Water</i>.—For 100 men and 50 animals, from river.</p> <p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Supplies</i>.—Nil.</p>
COLLECTOR OF COIMBATORE, COIMBATORE.	COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	<p>9</p> <p>85m. 7$\frac{1}{2}$f.</p> <p>MADUKARAL.—6 m. 6$\frac{1}{2}$f. Metalled road, fit b.r. (1,200). Country very jungly for first 3 m., thence open and cultivated. At 3 m. Kandaigaundinsalai (1,500). Cross 1 stream, bridged, and one unbridged, fordable.</p> <p><i>Camping-ground</i>.—12 acres W. of village.</p> <p><i>Water</i>.—From wells and a <i>nala</i>, for 200 men and animals.</p> <p><i>Fuel</i>.—$\frac{1}{2}$ ton.</p> <p><i>Fodder</i>.—Grazing in Forest Reserve at 1 m. for 500 animals.</p> <p><i>Supplies</i>.—Grain for 200 men and animals for 2 days. Oxen 50; sheep 500; goats 500. Vegetables in fair quantities.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	10	<p>COIMBATORE—8 m. 3 f. Metalled road, fit b. p. t. r. (about 50,000) for motors. Country flat and open, soil stony. Route No 21 crosses here. 4 m. Kumiamuthur (2,500). Cross 3 streams, 2 unbridged, fordable.</p> <p><i>Camping-ground</i>—</p> <p><i>Water</i>—For 100 men and 500 animals.</p> <p><i>Fuel</i>—500 tons.</p> <p><i>Fodder</i>—Grazing: 500 acres, within 1 mile.</p> <p><i>Supplies</i>—Grain for 1,000 men and 500 animals for 2 months. Oxen 500; sheep and goats 5,000 each. Vegetables for 1,000 men per day.</p>
		94m 2f.	
		11	
		102m. 2f.	<p>RAMANOJAN—7 m. 7½ f. Metalled road, fit for motors. Country flat and open. 4½ m. Simianpilai (500). Cross 1 stream, bridged.</p> <p><i>Camping-ground</i>.—On a moderate sized plain, sufficient for 1 regiment.</p> <p><i>Water</i>.—From tanks and wells, for 10,000 men and 5,000 animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 500 men (Indian Troops) for 2 or 3 days. Oxen 100; sheep 100; goats 100. Vegetables 1,000 lbs.</p>
		12	
		110m. 7f.	<p>KARMOTANPATI.—8 m. 5 f. Road rough in (276). places, but fit for motors. Country descends for 4½ m., afterwards open. 1½ m. Nilambur Casbati (4818). 4 m. Mudalipalayam. 4½ m. Arasokabuti. 5½ m. Kollupatam. 6½ m. Kaniyur.</p>

ROUTE NO. 13.

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		
		13
		120 m. 4 f.
		14
		131 m. 4 f.
		<p><i>Camping-ground</i>.—6·28 acres N.-E. of village, and 5·06 acres more, if required. <i>Water</i>.—For 100 men and animals. <i>Fodder</i>.—Grazing poor—about 100 animals for 1 day. <i>Supplies</i>.—Grain for 100 men and animals for 1 week. Oxen 100; sheep 100; goats 100. Vegetables 500 lbs.</p> <p>AVANASHI.—9 m. 5 f. Metalled road, fit for b.p. (2,182). Country open and stony, with cultivation at intervals. At 2 m. Somanur Railway Station. 8½ m. Attayampalayam (560). <i>Camping-ground</i>.—By a running stream. 500 yds. W. of village, also market site, 5·39 acres, close to road. <i>Water</i>.—Good, from wells, unlimited in rainy season. <i>Fuel</i>.—About 100 headloads. <i>Fodder</i>.—Grazing for about 100 animals near the village. <i>Supplies</i>.—Grain 500 men and 200 animals for 1 week. Sheep 200; goats 200. Vegetables for 200 men on Thursdays only.</p> <p>CHANGAPALLI.—11 m. 0 f. Metalled road, fit for motors. Country mostly dry cultivation. Cross 2 <i>nalas</i>, fordable. At 2 m. South Indian Railway Station. <i>Camping-ground</i>.—Nil. <i>Water</i>.—From tanks, for 200 men and 100 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	15	<p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing for about 100 animals near village.</p> <p><i>Supplies</i>.—Grain for 100 men and 200 animals for 2 days. Oxen 500; sheep 100; goats 500.</p>
		143m. 4f.	<p>PERUNDURAI.—12 m. 0½ f. Metalled road, b.p.r. (7,775). fit for motors. Country mostly dry cultivation. Route No. 27 crosses here. 6 m. Vigiarnangalam (1,583).</p> <p><i>Camping-ground</i>.—On a gently sloping plain, dry and clean, near the bungalow, 6·87 acres, N. of town.</p> <p><i>Water</i>.—For 300 men and animals.</p> <p><i>Supplies</i>.—Grain for 300 men and animals for 3 days. Oxen 100; sheep 300; goats 200.</p>
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	16	<p>ERODE.—11 m. 0f. Metalled road, fit for motors. b.p.t.r. (16,700). Country mostly cultivated. This is the junction station of the standard and metre gauge lines of the South Indian Railway. Cross 1 stream, unbridged, fordable. Route No. 18 crosses, and No. 28 joins here.</p> <p><i>Camping-ground</i>.—5·97 acres, E. of town.</p> <p><i>Water</i>.—Abundant for 4,000 men and animals.</p> <p><i>Fuel</i>.—20 to 25 tons.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 animals, Oxen 100; sheep 500; goats 250.</p>
		154m. 4½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	17	PALLIPALAYAM.—2 m. 1 f. Road metalled and fit for motors. p. (4,463).
		156 m. 5 f.	At 1 m. Kalianur (448). Route No. 32 joins here. Cross the Cauvery river, unbridged, small number of boats available. <i>Camping-ground</i> .—Good and dry, 1 acre, N. of village: no intermediate place for encamping. <i>Water</i> .—Unlimited supply. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Grazing in rains only. <i>Supplies</i> .—Obtainable on Wednesdays. Oxen 222; sheep 1,003; goats 507.
		18	SANKARIDRUG.—11 m. 0 f. Road metalled, fit for motors. Country open and cultivated, with rocky patches. Route No. 17 crosses and No. 28 joins here. <i>Camping-ground</i> .—3 acres, W. of village; additional space available. <i>Water</i> .—Good, from wells. <i>Fodder</i> .—Grazing available. <i>Supplies</i> .—Grain for a fairly large number of men and animals. Meat <i>nil</i> . Vegetables in rains.
		179 m. 1 1/4 f.	19 MACDONALD'S.—11 m. 4 f. Metalled road, fit for motors. A few peaked rocky hills are scattered over the country. Country covered with bushes and cultivation and very undulating. 6 m. Attavaithalayur (1,410). 7 m. Vaithuatham (3,587).

AUTHORITIES.		No. of stage. and total distance.	ROUTE NO. 13.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			At 2 m. Ponnar River, fordable. <i>Camping-ground</i> .—Dry lands available. <i>Water</i> .—From tank and wells, but supply difficult in dry season. <i>Fuel</i> .—Scanty supply. <i>Supplies</i> .—Grain for any number with notice. Oxen 178; sheep 942; goats 782. Vegetables available.
		20	SALEM.—12 m. 7 f. <i>Vide</i> Route No. 6, stage No. 24. Road metalled, well shaded and undulating, fit for motors. For 10 m. the country is rocky and covered with low brushwood, then flat and cultivated, high hills to the North distant 2 m. At 1½ m. Ponnar River, unbridged, fordable. At 7 m. and 8 m. a stream, bridged. At 1½ m. Vembodithalam (1,406). 4½ m. Sinna Sirapapadi (1,151). 8½ m. Peria Sirapapadi (515). 10½ m. Periyur Ariyanur (1,054). 11½ m. Periyur (1065). <i>Water, Fuel, Grazing and Supplies</i> are available in large quantities.
		192 m. 0 f.	

ROUTE No. 13 (1).

FROM TRICHUR TO KANNAKOLAM.

This road is metalled and bridged. The country is hilly and the soil rocky and uncultivated.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (1).
Civil.	Military.		
BRITISH RESIDENT, COCHIN, TRIVANDRUM			TRICHUR. <i>b.p.t.r.</i>
	G. O. C., MADRAS DISTRICT, WELLINGTON.		KANNAKOLAM.—14 m. 2 f. A large flourishing village of Syrian Christians. Big and good camping-ground. Abundant water and supplies.

ROUTE No. 13 (2).

FROM TRICHUR TO TIRTALLA.

Length.—32 m. 4 f.

4 stages.

Road.—Metalled and bridged, practicable at all seasons.

Direction.—North.

COLLECTOR OF BRITISH RESIDENT, MALABAR COCHIN, CALICUT. TRIVANDRUM.			TRICHUR. <i>b.p.t.r.</i>
	1		VADAKANCHERI—11 m. 5 f. <i>b.p.</i>
	11m.5f.		
	2		SHORANUR—8 m. 7 f. (RAILWAY STATION)
	20m.4f.		<i>p.r.</i>
	3		WATTALIKAVU—7 m. 0 f.
G. O. C., MADRAS DISTRICT, WELLINGTON.	27m.4f.		
	4		TIRTALLA—5 m. 0 f.
	32m.4f.		

ROUTE No. 13 (3).

FROM WATTALIKAVU TO PATAMBI RAILWAY STATION.

Road metalled and bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (3).
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.		WATTALIKAVU—Cross the Ponani River.
		1	PATAMBI—3 m 2 f.
		3 m. 2 f.	(RAILWAY STATION) r.

ROUTE No. 13 (4).

FROM VADAKANCHERI TO KOLLENGODE.

Road metalled and bridged, practicable at all seasons.

Direction.—East, by North.

COLLECTOR OF MALABAR, CALCUT.	G. C., MADRAS DISTRICT, WELLINGTON.		VADAKANCHERRY. <i>b.p.</i>
		1	VELENGI—7 m. 0 f.
		7 m. 0 f.	
		2	KOLLENGODE—6 m. 0 f.
		13 m. 0 f.	<i>p.t.</i>

ROUTE No. 13 (5).

FROM PODANUR RAILWAY STATION TO COIMBATORE.

Road.—metalled and bridged throughout; practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (5).	
Civil.	Military.			
COLLECTOR OF COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		PODANUR RAILWAY STATION.	
		1	COIMBATORE.—4 m. 1 f. <i>b. p. t. r.</i>	

ROUTE No. 13 (6).

FROM COIMBATORE TO BOLAMPATI.

Cross the Noyil River, unbridged; river fordable; road partly gravelled.

Direction.—West by South.

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	COIMBATORE.	
			<i>b. p. t. r.</i>	
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	1	BOLAMPATI.—3 m. 5 f.	

ROUTE No. 13 (7).

FROM COIMBATORE TO SUNDAPATI.

Epitome.—Cross the Bhavani River, unbridged, at Sundapati. A good fair-weather road as far as Tadagam; bridle-path fit for pack animals for the next 8 miles; then 6 miles very difficult to Gopanari, beyond which the path is only practicable for foot-passengers. No basket boats at the crossing of the river, but they can be had with notice from Mettupalaiyam. When the river is in flood, boats should be used $\frac{1}{2}$ mile below Sundapati, as the current there is not so strong. From Sundapati there is a path to Coonoor *via* Manar, through coffee estates; but there is no path to Ootacamund.

Direction.—North-West, North-East and South-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (7).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	—	COIMBATORE. <i>b. p. & r.</i>
		1 12m. 2f.	TADAGAM.—12 m. 2 f.
		2 26m. 2f.	GOPANARI.—14 m. 0 f. An unfurnished forest <i>b.</i> rest-bungalow here.
		3 32m. 2f.	SUNDAPATI.—6 m. 0 f.

ROUTE No. 13 (8).

FROM COIMBATORE TO PULLIAMPATTI.

Road.—Road metalled and partially bridged.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (8).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	COIMBATORE.— <i>Vide</i> Route No. 13, stage <i>b. p. t. r.</i> No. 10.
		1	SIRAVANAPATTI.—6 <i>m.</i> 5 <i>f.</i> A moderate- sized village. Coun- try flat and culti- vated. Supplies scanty.
		6 <i>m.</i> 5 <i>f.</i>	
		2	ANNUR.—13 <i>m.</i> 2 <i>f.</i> A moderate-sized village, <i>b. p.</i> water from a tank from September to December. Country open, flat and cultivated. Supplies scanty.
		19 <i>m.</i> 7 <i>f.</i>	
		3	PULLIAMPATTI.—9 <i>m.</i> 5 <i>f.</i> <i>Vide</i> Route No. <i>b. p.</i> 15, stage No. 7.
		29 <i>m.</i> 4 <i>f.</i>	

ROUTE No. 13 (9).

FROM COIMBATORE TO KODUMUDI.

Length.—67 m. 2½ m.

6 stages.

Road excellent, metalled and practicable at all seasons.

Direction.—East and North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (9).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			COIMBATORE.— <i>Vide</i> Route No. 13, stage
		1	<i>b. p. t. r.</i> No. 10.
		11m. 2½f.	SULUR.—11 m. 2½f. Camping ground on 3 sides of the place. Water from tanks.
			Country flat and highly cultivated.
		2	<i>Supplies.</i> —limited
		23m. 1½f.	PALLADAM.—11 m. 6½f. Road good, through an avenue. Country flat, open and partially cultivated.
			<i>Water.</i> —From a <i>nāla</i> and wells.
			<i>Supplies.</i> —Moderate.
		3	KOILPALAIYAM.—10 m. 7 f. Water from well. Supplies scanty.
		34m. 0¼f.	Country open; soil black. Route No. 15 crosses here.
		4	KANGAYAM.—10 m. 0 f. Country open and undulating; soil hard and red.
		4m. 0¼f.	
		5	MUTTUR.—12 m. 2f. Large village. Water always procurable.
		3m. 2¼f.	
		6	KODUMUDI.—11 m. 0 f. Large village, with railway station. Water always procurable. Cross the Noyil River and Kalingaroyen channel, unbridged.
		7m. 2½f.	

ROUTE No. 13 (10).

FROM NEAR SULUR TO KARMOTANPATI.

Road metalled and partly bridged, practicable at all seasons.
 Sumanur Railway station is 2 miles from Karmotanapati.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (10).
Civil.	Military.		
COLL. OF COIMBATORE. COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	SALUR. <i>p.</i>
		1	KARMOTANPATI.—5 m. 3 f.

ROUTE No. 13 (11).

FROM PERUNDURAI TO KUNNATUR.

Road partly gravelled, practicable at all seasons.

Direction.—West

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PERUNDURAI <i>b. p.</i>
		1	KUNNATUR.—12 m. 0 f. <i>p.</i>

ROUTE No. 13 (12).

FROM PERUNDURAI TO SATYAMANGALAM.

Road fairly good, passable by carts at all seasons of the year.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (12).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	PERUNDURAI
		1	<i>p. b.</i> SIRUVALUR.—11 m 7½ f.
		11m. 7½ f.	<i>p.</i>
		2	KURUMANDUR.—8 m. 6½ f.
		20m. 6f.	<i>p.</i>
		3	SATYAMANGALAM. 11 m. 0 f. <i>Vide</i> Route No.
		31m. 6f.	<i>b. p. t.</i> 15, stage No. 8.

A large village ;
water, etc., pro-
curable at all
times.

ROUTE No. 13 (13).

FROM ERODE TO BHAVANI.

Road metalled and bridged ; practicable at all seasons.

Direction.—North-North-West.

CR. OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	ERODE.	
		<i>c. p. l.</i>	
		1	BHAVANI.—8 m. 6¼ f.
			<i>b. p. t.</i>

ROUTE No. 13 (14).

FROM VYKUNTHAM TO KALIPATTI.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 13 (14).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	VYKUNTHAM.—On route No. 13, $6\frac{1}{2}$ miles from Sankaridrug.
		..	KALIPATTI—6 m. 0f. p.

ROUTE No. 13 (15).

FROM MACDONALD'S CHOULTRY TO YELAKANTAPU-
RAM.Road partially metalled and bridged: the unmetalled portions
are impracticable during the rainy seasons.

Direction.—North-East.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	MACDONALD'S CHOULTRY r
		1	CHINNAPPAMPATTI—8 m. 0 f.
		8 m. 0f.	
		2	YELAKANTAPURAM—6 m. 3f.
		6m. 3f.	

ROUTE NO. 14.

FROM TIRUVALUR TO WELLINGTON.

Length.—235 m. $6\frac{1}{2}$ f.

22 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—Direction west-north-west. The road is unmetalled, though bridged to within a few miles of Tanjore, thence to Trichinopoly it is gravelled or metalled and bridged, one small stream excepted. It is, however, practicable for carts at all seasons, the unmetalled portion being composed of sand and clay, which, though often heavy, is never impassable. The unbridged stream, being fed merely by local drainage, is seldom unfordable, except for a few hours occasionally, after long and continued heavy rain.

From Trichinopoly to Kangayam, it is an excellent road, metalled, and, with the exception of the Amravati river, is bridged throughout. It is the best road between the two places and practicable at all seasons.

From Kangayam to Mettupalaiyam the road is partially metalled, but, though most of the streams are unbridged, it may be said to be practicable at all seasons, floods never rendering the streams impassable for more than a few hours.

The remainder of the road is first-class, metalled and bridged throughout, practicable at all seasons. The hill is 16 miles in length with a uniform rising gradient of 1 in $18\frac{1}{2}$. It is 18 feet wide, except one or two rocky parts, where the width is reduced to 12 feet, and is metalled and bridged throughout. The old hill is only $9\frac{1}{4}$ miles in length and is not metalled. It is a good bridle-path, for, though the maximum gradient is 1 in 5, the average is 1 in $12\frac{1}{2}$ and many parts are level. The total rise to Coonoor bridge is 4,500 feet. From Coonoor to Wellington the road ascends gradually throughout. The distance by the old road is less, and it is practicable for carts, though rough.

AUTHORITIES.		No. of stage and total distance	ROUTE NO. 14.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		..	TIRUVALUR.— <i>Vide</i> Route No 7, stage 18. <i>b. p. t. r.</i>
		1	
		12m. 1f.	KORADACHERI.—12m. 1f. Cart track only, fair repair, fit for country carts. (2,900). Country open and cultivated. 2 m. Thundalai (1,000). 5 m. Anaivadupatti (550). 6 m. Ammayapan (2,800). 9 m. Anjkudi (1,700), 11 m. Urugudi (500). <i>Camping-ground</i> .—Small, close to village, for 1 company only. <i>Water</i> .—Good, ordinarily sufficient for men and animals of 1 battalion. Supply scarce in hot weather. <i>Fuel</i> .—Scarce. <i>Supplies</i> .—Rice for 1 battalion for 1 day; other supplies nil.
		2	
		25m. 7f.	AMMAPET.—13 m. 6 f. Road fit for country carts. Country level and cultivated all the way. Route No. 31 crosses in this stage, at Nidamangalam. 1 m. Vennar River. Vekramanar channel close by. Cross 3 streams, bridged. 2 m. Alimidhi (946). 3½ m. Vajjakaluttur (492). 5 m. Nidamangalam (3,770). 6 m. Siddamalli Pulpadi (1,485). 6½ m. Parappanamodu (730). 7½ m. Adanur (812). 9½ m. Koilvenni (1,840). Koradacheri (1,968). 10½ m. Kishnathapuram (692). <i>Camping-ground</i> .—Very confined, near village.

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	

ROUTE NO. 14.

COLLECTOR OF TANJORE, TANJORE.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

3

39m. 5f.

4

47m. 4f.

5

55m. 4f.

Water.—From rivers and channel, for 500 men and animals in dry season.

Fuel.—Available.

Supplies.—Grain for 500 men and animals for 5 days. Sheep 50; goats 50. Vegetables for 100 men (larger supply from Tanjore).

TANJORE.—13 m. 6 f. Gravelled road fit, for b. p. t. r. motors. Country flat and cultivated

with paddy. $3\frac{1}{2}$ m. Salayamanpur. 5 m. Pund. Cross Vadanar stream, 10 yards, bridged. $9\frac{1}{2}$ m. Mariamvoil.

Vide Route No. 8, stage No. 5.

VALLAM.—7m. 7f. Gravelled road, fit for p. t. r. motors. Country (11,500). richly cultivated.

4 m. Uthuvani stream, 30 yards, bridged. $4\frac{1}{4}$ m. Pillayarpatthi (1,150).

Camping-ground.—E. of village, for 2 battalions.

Water.—From tank and wells, for a similar number.

Fuel.—1 ton, stacked.

Fodder.—Grazing for 50 animals, 1 m. from village.

Supplies.—Grain for men and animals of 1 battalion for 4 days. Oxen 150; sheep 750; goats 250.

SENJAPATTHI.—8 m. 0f. Road fit for motors. b. (1,650). Country level and cultivated.

Route No. 17 joins here.

ROUTE NO. 14.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		At 4 m. cross the Muthalamu Tuvarai river, unbridged, 130 yards wide. Vallam and Tirumalai-Samudrum (united 1,150). <i>Camping-ground</i> .—W. of village, for 1 battalion. <i>Water</i> .—From 2 tanks and 2 wells, for same number. <i>Fodder</i> .—Grazing for 400 animals, within 2 m. <i>Supplies</i> .—Grain for men and animals of 2 platoons for 5 days. Oxen 50; sheep 500; goats 250.
		6	TUVAKUDI.—9 m. 5 f. Metalled road, fit for all transport. Country open and cultivated.
		65m. 1f.	3½ m. from Tiuvarambar. 3 m. Asur (830). 7 m. Arayakurdrappatti. 7 m. nala, 100', brick bridge. <i>Camping-ground</i> .—14 acres N.-W. of village. <i>Water</i> .—Unlimited supply. <i>Fuel</i> .—Cut and stacked, plentiful. <i>Fodder</i> .—1,000 acres grazing near village. <i>Supplies</i> .—Must be imported from Trichinopoly.
		77m. 1f.	TRICHINOPOLY.—12 m. 0 f. <i>Vide</i> Main Route b. p. t. r. No. V, stage No. 16. Metalled road, fit for all transport. Country open and cultivated. 4 m. Varaganur. 5 m. Tiruvarambur (7,430). 7 m. Yellakudi (667). 9 m. nala, 60', brick bridge.
COLLECTOR OF TANJORE, TANJORE.		8	ALLUR.—8 m. 0 f. Metalled road from Putur. r. Bridge fit for all transport. Country
		85m. 1f.	open and cultivated.

ROUTE NO. 14.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Militar.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			2 m. Woraiyur (1,599). 4 m. stream, 40 yds., brick bridge. 5 m. Kambarasampatti (2,040). 7 m. Murungapatti (2,099). <i>Camping-ground</i> .—6 acres E. of village. <i>Supplies</i> .—From Trichinopoly.
		9	KAMANARKAN 8 m. 2 f. Metalled road, fit for all transport. Country open and flat.
		93m. 3f.	PALAIYAM, r. 1½ m. Tiruchandurai (675). 2½ m. Andavallur (1,606). 4 m. 4½ m. 7 m. branches of Cauvery River, 40 yards each, crossed by brick bridges. 4½ m. Thirupillaturai (1,850). 5½ m. Perugamanu (1,387). 6½ m. Sirugamani (1,683). <i>Camping-ground</i> .—6 acres, W. of village. <i>Water</i> .—Unlimited, from river. <i>Fuel</i> .—Obtainable. <i>Supplies</i> .—Must be imported.
		10	LALAPET.—12 m. 7 f. Metalled road, fit for p. r. (2,407). all transport. Country open and flat, with some cocoanut topes. Cross 2 <i>nalas</i> , 25' each, brick bridges. 4 m. Marudur (2,752). 4½ m. Ragandram (2,155). 6 m. Kulitolair (2,743). 6½ m. Vaiganullur (1,980). 7½ m. Manathattai (1,393). 8½ m. Vadayam (1,240). 10¾ m. Karunappanayakkanpetta (1,997). 11¾ m. Karuppatham (2,459). <i>Camping-ground</i> .—33 acres, E. of village. <i>Water</i> .—From river, unlimited. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 1,000 animals 1 m. away. <i>Supplies</i> .—Grain for 1,000 men for 5 days and for 500 animals for 3 days. Oxen 20; sheep 100; goats 100. Vegetables for 1,000 men.
		106m. 2f.	

ROUTE NO. 14.

AUTHORITIES		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	11	MANAVASL.—8 m. 4 f. Metalled road, fit for all transport. Country open and flat.
		114m. 6f.	River Cauvery continues close on the right to Kattapatti, 7 m. 1 f. 1½ m. Chintaglavi (2,725). 2 m. Malidlamapuram (6,7.3). 2½ m. Kamannah Nalo (1,260). 3¼ m. Krishnalapuram (4,100). 5½ m. Tirukanliyur (2,072). 7 m. Mayanur (1,296). <i>Camping-ground.</i> —14 acres, S. of village. <i>Water.</i> —From <i>nala</i> and channel, for 1,000 men. <i>Fodder.</i> —Grazing for 1,000 animals, 3 m. from village. <i>Supplies.</i> —Grain for 1,000 men and 500 animals for 3 days with notice. Oxen 20; sheep 50; goats 50. Vegetables for 500 men with notice.
		12	KARUR.—10m. 2f. <i>Vide</i> Route No. 6; <i>b. p. t. r.</i> stage No. 18.
		124m. 0f.	Metalled road, fit for all transport. Country flat and open. Cross the Amravati river, unbridged, 1,000', fordable except in flood, 3 boats: cross the railway bridge on foot. 5 m. Puliur (3,140). 7 m. Melapalayam (1,525). 8 m. Senapuratti (1,969). Route No. 6 crosses and Nos. 1 and 18 join here.
		13	PARAMATTI.—12m. Metalled road, fit for all transport. Country flat and open
		136 m.	and uncultivated. 4 m. Andancoil (3,935). 7 m. Pavithram (4,060). 10 m. Karudaiyam Palaiyam (1,624).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 14.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground</i>.—Open and good, on left of road and $\frac{1}{4}$ m. W. of village.</p> <p><i>Water</i>.—For 1,000 men and 300 animals, from wells.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing for 300 animals within 2 miles.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 300 animals for 3 days. Sheep 100; goats 100. Vegetables for 1,000 men.</p>
		14	VELLAI KOVIL.—13 m. 3f. Metalled road, b. fit for motors. Country flat, open and cultivated. Route No. 28 joins in this stage, at Tenalli.
		149 m. 3f.	At 2 m. Kuttumanur. 3 $\frac{3}{8}$ m. Tenalli. 9 $\frac{1}{8}$ m. Kurukkatur.
			<p><i>Camping-ground</i>.—N.-E. and N.-W. of village, very indifferent ground.</p> <p><i>Water</i>.—Good and plentiful, from wells, for 300 men and 100 animals.</p> <p><i>Supplies</i>.—Grain for above numbers for 5 days.</p> <p>Oxen 25; sheep 100; goats 50.</p>
		15	KANGAYAM.—11 m. 4 $\frac{1}{2}$ f. Metalled road, b.p.t. (8,276, including fit for motors. hamlets). Country flat, open and cultivated. Headquarters of the Deputy Tahsildar. Route No 27 crosses here. 5 $\frac{1}{2}$ m. Olaiपालयाम.
		160 m. 7 $\frac{1}{2}$ f.	<p><i>Camping-ground</i>.—Good, high and dry, left of the road, $\frac{1}{4}$ m. from village.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 14.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		16	<p><i>Water</i>—From 6 wells, for 500 men and 200 animals.</p> <p><i>Supplies</i>—Grain for 500 men and 200 animals for 5 days. Oxen 50; sheep 200; goats 100.</p>
		171 m. 2½ f.	<p>NACHIPALAIYAM.—10 m. 3 f. Metalled road, (1,380). fit for motors.</p> <p>Country flat, open and cultivated. At 6½ m. Paddaiyur. Cross 2 <i>nalas</i>, unbridged.</p> <p><i>Camping-ground</i>.—Nil.</p> <p><i>Water</i>.—From 5 wells, for 200 men and 100 animals.</p> <p><i>Supplies</i>.—Grain for 200 men and 150 animals for 3 days. Oxen 50; sheep 100; goats 20.</p>
		17 178 m. 7½ f.	<p>TIRUPUR.—7 m. 5f. Metalled road, fit for b. p. t. (7,665). motors. Country flat, open and cultivated. Route No. 15 joins here. 3½ m. Nallur b. (4,715). Cross 1 stream, fordable. Railway Station 1 m. N. of town</p> <p><i>Camping-ground</i>—Good, on N. bank of river, W. of town; also dry lands N. of Railway Station.</p> <p><i>Water</i>.—From the river and wells, for 5,600 men and 2,000 animals.</p> <p><i>Fuel</i>.—20 maunds per day for 1 week.</p> <p><i>Supplies</i>.—Grain for 500 men and 300 animals for 1 week. Oxen 200; sheep 2,000; goats 500. Vegetables—daily market, 1,500 men; weekly market, 5,000 men.</p>

ROUTE NO. 14.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		18	AVANASHI.—7 m. 7f. Metalled road, fit <i>b.p.</i> for motors. Country flat, open and culti- vated. <i>Vide</i> Route No. 13, stage No. 13. At 2 m. cross South Indian Railway at Tirupur Station. Cross Noyil river, unbridged. 4 m. Ammapalayam (1,000). 5 m. Therumuru- yanpundi (245). 6 m. Anaipathur (80). 7½ m. Kaikattapudur (100').
		186 m. 6½ f.	
		19	ANNUR.—12 m. 0f. Metalled road, fit for <i>b.p.</i> (750'). Country flat, open and cul- tivated. Cross 2 <i>nalas</i> , unbridged, and 3 bridged. 1½ m. Attayaipalayam (560). 2½ m. Putthur (240). 3½ m. Sundakkampailayam (576). 4½ m. Arigudampalaiyam (295). 5 m. Anantagiri (225). 6 m. Koranalar (1,500). 7 m. Putthur (200). 9 m. Uthupalayam (375). <i>Camping-ground</i> .—Market site, W. of village, about 4 acres. <i>Water</i> .—From 1 tank and 2 wells, plentiful in rainy season. <i>Fuel</i> .—Obtainable with notice. <i>Supplies</i> .—Grain for 100 men daily; larger sup- plies on market days (Saturday). Sheep 100; goats 50. Vegetables available.
		198 m. 6½ f.	
		20	METTUPALAIYAM.—13 m. Metalled road, <i>b.p.t.r.</i> (8,745). fit for motors. Cross 12 <i>nalas</i> , un- bridged and 2 bridged. Route No. 21 is cross- ed in this stage. ¾ m. Nadur (200). 4½ m.
		211 m. 6½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 14.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.			Thethampalayam (560). 7½ m. Pogalur (400). 10½ m. Kurukalayam palaiyam (500). <i>Camping-ground</i> .—About 1,000 acres, close by. <i>Water</i> .—From Bhavani River. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 200 animals at 2 m. <i>Supplies</i> .—Grain for 1,000 men and 200 animals for 1 month. Oxen 100; sheep 1,000; goats 1,000. Vegetables about 20 cartloads of brinjals can be had.
		21	COONNOOR.—21 m. Metalled road, fit for motors. By the p. t. r. (10,582). old hill, the distance is 14½ m. Coonoor bridge is 5,500 feet above sea-level. South Indian Railway Station. Ascend the Coonoor Hill. Country mostly coffee and tea estates and very jungly. 6 m. Kallar river, bridged, 150'. 8 m. Baliyar river, bridged, 100', and village (10). 15 m. Benhope (1.0). 16 m. Coonoor river, 150', bridged.
		232 m. 6½ f.	<i>Camping-ground</i> .—Nil. <i>Water</i> .—Pipe supply. <i>Fuel</i> .—From Forest Depot, near Railway Station. <i>Supplies</i> .—Grain for 1,000 men and 100 animals for 1 week. Oxen 20; sheep 100. Vegetables 300 lbs.
		22	WELLINGTON.—3 m. Metalled road, fit for motors. Vide Main Route No. VI, initial stage.
		25 m. 6½ f.	
COLLECTOR OF NILGIRIS, OOTACAMUND.		GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	

ROUTE No. 14 (1).

FROM SATYAMANGALAM TO PAPANASAM.

A good metalled road, practicable at all seasons.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 14 (1).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		SATYAMANGALAM.— <i>p.t.</i>
		1	PAPANASAM.—10 m. 0 f.— <i>Vide</i> Route No. 8, <i>p.t.r.</i> stage No. 6.

ROUTE No. 14 (2).

FROM SENJAPATTI TO PUDUCHATTRAM.

Road metalled and bridged throughout, practicable at all seasons

Direction.—North.

COLLECTOR OF TANJORE, TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		SENJAPATTI. <i>b.</i>
		1	BUDALUR RAILWAY STATION. <i>r.</i>
		5 m. 3 f.	
		2	PUDUCHATTRAM.—5 m. 5 f.
		11 m. 0 f.	

ROUTE No. 14 (3).

FROM LALAPET RAILWAY STATION TO TOTIAM.

Cross the Cauvery, unbridged; road metalled and practicable at all times; ferry boats capable of carrying 30 men ply across the river.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 14 (3).
Civil.	Mili- tary.		
COLLECTOR OF TRICHINO- POLY, TRICHINOPOLY.	G. O. C., MADRAS DISTRICT, WELLINGTON.		LALAPET RAILWAY STATION. <i>p.r.</i>
		1	TOTIAM.—2 m. 0 f.
		2 m. 0 f.	

ROUTE No. 14 (4).

FROM PARAMATI TO NOYIL-KUPAM.

Road metalled, but not bridged; practicable for carts at all seasons.

Direction.—North.

COLLECTOR OF COIMBA- TORE, COIMBATORE.	G. O. C., MAERAS DISTRICT, WELLINGTON.		PARAMATI <i>b.</i>
		1	NOYIL-KUPAM.—7 m. 2 f.

ROUTE No. 14 (5).

FROM PADDAIYUR TO KUNNATUR.

Road gravelled and partially bridged, practicable at all seasons.

Direction.—North by West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 14 (5).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C., MADRAS, DISTRICT, WELLINGTON.	1	PADDAIYUR.
		3 m. 4 f.	WUTUKULI.—3 m. 4 f. Cross the Noyil river, unbridged.
		2	RAILWAY STATION.
		7 m. 0 f.	SENGAPALLI.—3 m. 4 f.
		3	KUNNATUR.—5 m. 0 f.
		12 m. 0 f.	p.

ROUTE No. 14 (6).

FROM METTUPALAIYAM TO SATYAMANGALAM.

Road metalled and gravelled; the Bhavani and other large streams are bridged; road practicable at all seasons; country wild; fever prevalent from January to June.

Direction.—North-East.

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C., MADRAS, DISTRICT, WELLINGTON.		METTUPALAIYAM.— b.p.t.r.
		1	SIRUMUGAL.—6 m. 6 f.—A local fund bungalow here.
		2	IYEMPOLLUM.—
		3	SATYAMANGALAM.—21 m. 4 f. b.p.t.

ROUTE NO. 15.

FROM PALNI TO MALEMANI.

Length.—39: $\frac{1}{2}$ m.

36 stages.

Authority and date.—General Officer Commanding, 9th Division
Jan. 1919.

Epitome.—Direction North-North-West. As far as Satyamangalam the road is practicable at all seasons, being metalled and bridged with the exception of one unimportant stream; thence to Seringapatam, it is partially metalled and is bridged throughout. The Hassanur pass is 6 miles in length, but is made and, having no steep gradients, presents no difficulties; this is the best and most direct route between the two places, but fever is very prevalent near the pass, where the country is hilly and jungly. Beyond that, the road is metalled, bridged and practicable for wheeled traffic at all seasons, as far as Banavara; thence to Anantapur, there is a good metalled road, suitable for the passage of artillery and cavalry at all seasons; beyond that, the road is good only in the dry season.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15.
Civil.	Military.		
COLLECTOR OF MADURAI.	S. O. C., MADRAS DISTRICT, WELLINGTON.		PALNI.— <i>Vide</i> Route No. 11, stage No. 12. <i>b.p.t.</i>
		1	THOPANPATL.—3 m. 7 f. Gravelled road, (2,451). in good repair, fit for motors. Country cultivated. At 6 m. Thumallapatti (1,513). <i>Camping-ground.</i> —2 acres, E. of road and village. <i>Water.</i> —2 wells, for 200 men and 100 animals. <i>Fuel.</i> —Obtainable. <i>Supplies.</i> —From Palni with notice. Oxen 12; sheep 24; goats 24. Country vegetables available with notice.
		9 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	DHARAPURAM.—12 m. 1 f. Road fit for b.p.t. (8,765). motors. Country cultivated. Route No. 16 crosses and No. 27 joins here. Cross the Amravati river, 170 yds. wide (bridge under construction). Ferry available. 11 m. Kolin-givadi (1,480). <i>Camping-ground</i> —Dry and good, W. of village. <i>Water</i> —Abundant. <i>Supplies</i> —Paddy for 5,000 men for 10 days, grain for 300 animals for 7 days and other grain in small quantities. Oxen 300; sheep 500; goats 100. Vegetables scarce.
		22 m.	
		3	MANIAGRAM.—7 m. 3½ f. Road fit for (80). motors. Country cultivated. Cross the Chinna and Peri Uppar rivers, bridged. 3 m. Nanyagampilli (500). 4 m. Verapoticam (600). 6 m. Kadarpullipatti (700). 7½ m. Sunijanellur (500). <i>Camping-ground</i> .—Nil. <i>Water</i> .—For 1,000 men. <i>Supplies</i> .—Grain for 100 men and animals for 2 days. Oxen 150; sheep 500; goats 200. Vegetables scarce.
		29 m. 3 f.	
		4	KOILPALAIYAM.—12 m. 6 f. Metalled road; (1,500). fit for motors. Country open and cultivated. At 6 m. cross a <i>nala</i> , paved crossing. 11 m. pass Avanashipalaiyam. <i>Camping-ground</i> .—5 acres E. of village, and 10 acres when uncultivated.
		42 m. 1½ f.	

AUTHORITIES.		No of stage and total distance.	ROUTE NO. 15.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—From wells and a <i>nala</i>, for 1,000 men and animals.</p> <p><i>Supplies</i>.—Grain for 500 men and 200 animals for 2 days. Oxen 50; sheep 1,000; goats 100.</p>
		5	<p>TIRUPUR.—11 m. 4 f. Road fit for motors—<i>b.p.t.</i> <i>Vide</i> Route No 14, stage No. 17.</p> <p>Country undulating and cultivated. 6½ m. Kovibvali (350). 8½ m. Settipaliam (150).</p>
		53 m. 5 f.	
		6	<p>AVANASHI.—7 m. 7 f. Road fit for motors. <i>b.p.</i> Country cultivated. Cross the Noyel river, bridged. 3 m. Ampurpoliam (1,500). <i>Vide</i> Route No. 13, stage No. 13.</p>
		61 m. 4 f.	
		7	<p>PULLIAMPATTI.—15 m. 5 f. Road metalled, <i>b.p.t.</i> (2,748). fit for motors. Country cultivated.</p> <p>At 4 m. 5 f. pass Cheyur (2,547) p. 8 m. Thandakarampaliam (2,293). Cross 4 <i>nalas</i>, unbridged, fordable.</p> <p><i>Camping-ground</i>.—17·98 acres, S.-W. of village; also 10·64 acres near.</p> <p><i>Water</i>.—For 100 men and animals only.</p> <p><i>Fuel</i>.—200 maunds.</p> <p><i>Supplies</i>.—Grain for 100 men only for 2 days. Oxen 500; sheep 500; goats 500.</p>
		77 m. 1 f.	
		8	<p>SATYAMANGALAM. 13 m. Metalled road, fit <i>b.p.t.</i> (7,000). for motors. Country mostly cultivated.</p> <p>Route No. 18 joins here. Cross the Bhavani river by a bridge.</p>
		90 m. 1 f.	

AUTHORITIES.

Civil.

Mili-
tary.No.
of
stage
and
total
distance.

COLLECTOR OF COIMBATORE, COIMBATORE.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

ROUTE NO. 15.

2 m. Nallur (300). 6 m. Pungampalli (200).
7 m. Vinnapalli (300). 9 m. Shenbagaputhur
(200). Cross 2 *nalas*, bridged, and 1 unbridged,
fordable.

Camping-ground.—7 acres, W. of village.

Water.—Unlimited.

Fuel.—50 tons and from Forest Reserve near.

Fodder.—Grazing in Forest Reserve, 2½ m.
away for any numbers.

Supplies.—Oxen 500; sheep 1,500; goats 500.

Vegetables *nil*.

9

BENNARI-CHATTRAM. 8 m. 2½ f. Road fit

for motors. Country

open and cultivated

at first but latter covered with light scrub
jungle. Cross 5 *nalas*, unbridged, fordable.

Camping-ground.—Ample and good, but no
separate site for the purpose.

Water and Fuel.—Nil.

Fodder.—Grazing available.

Supplies.—Nil.

10

HASSANUR.—13 m. 0 f. Road fit for motors.
(200). Country jungly.

Ascend the Hassanur Hill. Route No. 18
joins here. Stream at 10th mile, sometimes
not fordable in rains for some hours.

Camping-ground.—Good, in extensive clearing
in the jungle; also 37·20 acres W. of village.

Water.—From 2 streams near; very scanty in
dry seasons.

Fuel.—Small quantities can be cut.

Fodder.—Grazing in Forest Reserve near by.

Supplies.—Only oxen 50; goats 10.

98 m.
3½ f.111 m.
3½ f.

ROUTE NO. 15.

AUTHORITIES.		No. of stages and total distance.	
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT. GENERAL OFFICER COMMANDING, BANGALORE BRIGADE.		11	PUNNAJUR.—7 m. 4 f. Road metalled and b. (315). fit for motors and wheeled transport.
		118 m. 7 ½ f.	Country, bamboo jungle. Cross 6 <i>nalas</i> , unbridged, and 1 stream, bridged. <i>Camping-ground</i> .—1·30 acres S. of village and 2·16 acres close by. <i>Water</i> .—The Suvarnavati river near contains water during the rainy season but dries up in the hot season, when wells have to be dug in the bed of the stream. <i>Fuel</i> .—Grass and firewood available; with notice in the rainy season. <i>Fodder</i> .—Grazing for 300 animals in Forest Reserve 2 m. distant. <i>Supplies</i> .—Can be procured on 15 days' notice.
		12	ATTIGULIPARA.—8 m. 6 f. Road fit for b. (152). motors. Country bamboo jungle.
		127 m. 5 ½ f.	Cross 1 stream, bridged. 2 ¾ m. Thalvadi. Route No. 21 joins here. <i>Camping-ground</i> .—3 acres, N.-E. of village, and a further 3 acres close by. <i>Water</i> .—Unlimited supply during rains only. <i>Fuel</i> .—Obtainable in small quantities. <i>Fodder</i> .—Grazing in Forest Reserve 2 to 3 m. distant. <i>Supplies</i> .—Can only be obtained with notice.
		13	CHAMARAJNAGAR.—9 m. Road fit for b.p.t. (10,911). motors. Country cultivated. Route No. 21 leaves here.
		136 m. 5 ½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15.
Civil.	Military.		
DEPUTY COMMISSIONER, MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE BRIGADE.		<p>6$\frac{1}{2}$ m. Haradanahalli (2,283). Cross 1 stream, bridged.</p> <p><i>Camping-ground</i>.—11.35 acres, S. of village.</p> <p><i>Water</i>.—From wells, for 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—About 4 tons.</p> <p><i>Fodder</i>.—Grazing, about 127 acres 1 m. distant, for 300 animals.</p> <p><i>Supplies</i>.—Available with notice.</p>
		14	<p>BENDAVALI.—10 m. 4 f. Road fit for (1,302). motors, etc., partly metalled and gravelled.</p> <p>Country cultivated. 7 m. Badanguppa (1,505). Cross 1 stream, bridged.</p> <p><i>Camping-ground</i>.—3.5 acres, S.-E. of village.</p> <p><i>Water</i>.—From a tank and 5 wells, for 50 men and 20 animals.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Nil, but can be brought from places 10 to 12 m. distant.</p>
		159 m. 7 $\frac{1}{2}$ f.	<p>NANJANGUD.—12 m. 6 f. Road metalled, b.p.t. (6,960). in good condition ; suitable for the passage of artillery at all seasons, fit for motors.</p> <p>Country cultivated. Main Route No. VI is joined here. 2$\frac{3}{4}$ m. Kaslande (1,059). 6$\frac{1}{2}$ m. Badanval (1,392). 8$\frac{1}{4}$ m. Chingudihundi. 11 m. Golor (526). 11$\frac{1}{2}$ m. crosses Gundal river, bridged.</p> <p><i>Camping-ground</i>.—104 acres, N. of town.</p> <p><i>Water</i>.—Unlimited supply, from river.</p> <p><i>Fuel</i>.—Obtainable.</p>

ROUTE NO. 15.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	16	<p><i>Fodder</i>.—Straw only obtainable.</p> <p><i>Supplies</i>.—Grain for 1,000 men and animals for 15 days. Meat scarce. Vegetables for 500 men daily.</p> <p>MYSORE.—14 m. <i>Vide</i> Main Route No. VI, <i>b.p.t.r.</i> stage No. 11. Metalled road, fit for motors. 2½ m. Chikkainchattru (119). 5½ m. Kadakola (1,482). Cross Kalbani river and 2 streams, all bridged.</p>
		173 m. 7½ f.	
		17	<p>SERINGAPATAM.—9 m. 4 f. <i>Vide</i> Main Route No. VI, stage No. 12. Road good and suitable for the passage of artillery all the year round. Cross the Cauvery river; bridged.</p>
SUB-DIVISIONAL OFFICER, FRENCH ROCKS.		183 m. 3½ f.	
		18	<p>MALLANHALLI.—11 m. Road metalled (near Chankurli) b. and fit for motors. Country open and cultivated. French Rocks town 3 m. 6 f. E. of this. ¼ m. Cross Cauvery river, bridged. 2½ m. C. D. S. canal, bridged. 1½ m. Kirangur (1,433). 2½ m. Darusaguppa (425). 4½ m. Kartenal (462), 7 m. Damarballi (289). 7½ m. Kururbethalli (435).</p> <p><i>Camping-ground</i>.—10 acres, E. of village.</p> <p><i>Water</i>.—For 1,000 men and animals.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain from local markets to any quantity. Sheep 4; goats 2.</p>
		194 m. 3½ f.	

AUTHORITIES

Civil.

Mili-
tary.

ROUTE NO. 15.

DEPUTY COMMISSIONER, HASSAN DISTRICT, HASSAN.

GENERAL OFFICER COMMANDING, BANGALORE.

ATTIKUPPA.—12 m. 0 f. Road metalled and
b.p. (2,337). fit for motors. Coun-
try open and un-
dulating with wet and dry cultivation.

Cross 2 streams, bridged. 1 m. Chinkurli (1,143).
5 m. Anchimuddanhalli (166). 6 m. Thandikar
281). 6½ m. Hadnur (390). 9½ m. Murkanhalli
(740).

Camping-ground.—To the N., good, and
6 acres S. of village

Water.—For 1,200 men and animals.

Fuel and Fodder.—Nil.

Grain.—From local markets, as required. Cattle
very limited.

KIKKERI.—9 m Road metalled and fit
b.p. (1,686). for motors. Country open
and undulating, partially

cultivated. 1½ m. Chikkanhalli (1,143). 2½
m. Pura (153). 6½ m. Hodakihatti (94). 7
m. Kodimaranhalli (120).

Camping-ground.—Good, S. of village; and 1,200
sq. yds. W. of village.

Water.—10,000 men and animals.

Fuel.—Obtainable with notice.

Supplies.—Grain from local markets, as required.
Cattle very limited.

CHANNARAYAPATNA. 11 m. 0 f. Road metal-
b.p. (2,980). led and fit for motors.

Country undulating
and well cultivated. Route No. 39 crosses
here. 6½ m. Angola. All *nalas* bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15.
Civil.	Military.		
DEPUTY COMMISSIONER, HASSAN DISTRICT, HASSAN.	GENERAL OFFICER COMMANDING, BANGALORE,		<p><i>Camping-ground</i>.—94 acres, E. of town. <i>Water</i>.—1,000 men and 500 animals, from a tank. <i>Fuel and Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 200 men and 50 animals for 1 week. Cattle scarce.</p>
		22	<p>MALLAINHALLI.—10 m. 0½ f. Metalled road; (197). fit for motors. Country open and undulating, with cultivation. <i>Camping-ground</i>.—117 acres, E. of village. <i>Water</i>.—Which sometimes fails. From 2 tanks; for 200 men and 400 animals. <i>Fuel</i>.—Nil. <i>Fodder</i>.—117·37 acres grazing 1 m. from village for 400 animals. <i>Supplies</i>.—Grain with notice only. Cattle scarce. Vegetables nil.</p>
		236m. 4f.	
		23	<p>GANDASI —8 m. 7 f. Metalled road, fit for b. p. motors. Country open and undulating, with cultivation. 4 m. Kondenhal. 7½ m. Himkumaramhalli. <i>Camping-ground</i>.—Extensive, S. of village, and 5 acres, 2 m. N.-W. of village. <i>Water</i>.—From a tank, scanty in hot weather. <i>Fuel</i>.—Small quantities. <i>Fodder</i>.—Grazing available 2½ m. from village. <i>Supplies</i>.—Grain for any quantity at Thursday market. Oxen 20-80; sheep 50-70; goats 40-90; according to season (dry or rains). Vegetables in rains only (Thursdays).</p>
		245m. 3f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15.
Civil.	Military.		
DEPUTY COMMISSIONER, HASSAN DISTRICT, HASSAN.	GENERAL OFFICER COMMANDING, BANGALORE.	24	<p>ARSIKERE.—11 m. 5 f. Metalled road, fit for motors. Country open, undulating and partly cultivated. 3 m. Borenhalli. 4 m. Muddi. 6½ m. Kodihalli. 7 m. Rudranhalli. 8 m. Tallur. 9 m. Tripathihalli. 10 m. Gundakanhalli. Cross several channels, bridged.</p> <p><i>Camping-ground</i>.—For a small body, S. of village; and for an army corps, N. of it.</p> <p><i>Water</i>.—From 2 tanks and 1 <i>nala</i>.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing 3 m. distant.</p> <p><i>Supplies</i>.—Friday market, for 1,000 men and 500 animals, ordinarily, for 200 men. Cattle scarce.</p>
		257m. 0f.	
		25	
		266m. 4f.	
			<p>BANAVARA.—9 m. 4 f. Road metalled, fit for motors. Country open and cultivated.</p> <p>Route No. 40 crosses here. 2½ m. Jagur (361). 4½ m. Bendekere (769). Cross several channels, bridged.</p> <p><i>Camping-ground</i>.—N.-W. of Fort.</p> <p><i>Water</i>.—From a large tank, E. of the town, for 2,000 men and animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing, 110 acres, at ½ m., for 200 cattle.</p> <p><i>Supplies</i>.—Grain for 2,000 men and 2,500 animals for 2 days. Oxen 15; sheep 180; goats 45.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15.
Civil.	Military.		
DEPUTY COMMISSIONER OF KADUR, CHIKMAGALUR.	GENERAL OFFICER COMMANDING, BANGALORE.	26	KADUR.—14m. 2f. Road metalled and b.p. t.r. (2,900). fit for motors.
		280m. 6f.	Country open and cultivated. 8 m. Mattakatta (792). Cross 1 stream and Vada river (13 m.), bridged. Camping-ground.—6,400 sq. yds. in centre of town and same space W. of town. Water.—For 5,000 men and 1,000 animals. Fuel.—10 cartloads daily. Fodder.—Grazing at 1½ m. distant for 5,000 animals. Supplies.—Grain for 1,000 men and 500 animals for 1 week. Oxen nil; sheep 200; goats 100. Vegetables at Monday's market only.
		27	JODKATTA.—9 m. 2 f. Road fit for mo- (110). tors. Country open and cultivated. At 4 m. pass Birur (160), near Sivapur railway station. Camping-ground.—20 acres W. of village and dry fields close by. Water.—Plentiful and good. Fuel.—Nil. Fodder.—Small space (15 acres) only available. Supplies.—Grain for 100 men and animals for 3 days. Oxen nil; sheep 30; goats 30.
		28	TARIKERE.—9 m. 2 f. Metalled road, fit for b.p.t.r. (7,500). motors. Country undulating and cul- tivated.
		299m. 2f.	

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 15.
Civil.	Military.		
DEPUTY COMMISSIONER, CHIKMAGALUR, KADUR.	GENERAL OFFICER COMMANDING, BANGALORE.		Route No. 41 joins here. 1 m. Sivapur. 3 m. Chabunahalli. 4 m. Komahalli. 5½ m. Bettadahalli. 6½ m. Garramudi. 7½ m. Haleyrur. Cross 2 <i>nalas</i> , bridged. <i>Camping-ground</i> .—50 acres N. of town, and dry fields. <i>Water</i> .—Abundant. <i>Fuel and Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 1,000 men and 500 animals. Oxen 10; sheep 50; goats 50. Country vegetables only available.
		29	BENKIPUR.—12 m. Metalled road, fit for b. p. (1,810). Country undulating and cultivated. Route No. 41 leaves here. Birur-Shimoga railway passes near the village, the station, being ½ m. distant. 6 m. Karehalli. Cross 2 streams, bridged. <i>Camping-ground</i> .—For 3 or 4 regiments E. and N. of village. <i>Water</i> .—From Bhadra river, unlimited. <i>Fuel</i> .—4 Cartloads. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 100 men for 5 days; 50 animals for 2 days. Vegetables 1 maund.
		311m. 2f.	
DEPUTY COMMISSIONER OF SHIMOGA,	GENERAL OFFICER COMMANDING, BANGALORE.	30	SHIMOGA.—12 m. Metalled road fit, for motors. A large town on the left bank of the Tunga river, which is bridged. Headquarters of the Nagar Division and of the District Terminus of the Birur-Shimoga Railway Route No. 42 crosses here.
		323m. 2f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15.
Civil.	Mili- tary.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>4½ m. Bidari (495). 5½ m. Nidaji (479). Machenhalli (67). All <i>nalas</i> bridged. <i>Camping-ground</i>.—For 4 regiments close to the town; also 22 acres within 1 mile. <i>Water</i>.—From the Tunga river and a tank, unlimited supply. <i>Fuel</i>.—About 20 cartloads obtainable. <i>Supplies</i>.—Grain for 1,000 men for 5 days, 100 animals for 2 days. Oxen 2; sheep 50; goats 20. Vegetables 20 maunds.</p>
		31	<p>KUMSI.—15 m. 0 f. Road fit for motors. <i>b.p.</i> (1,826). Country undulating with wet cultivation and jungle. 5 m. Arakere. 7½ m. Mudden- koppa. All <i>nalas</i> bridged. At 11½ m. pass Ayanur where Route No. 44 crosses. <i>Camping-ground</i>.—34 acres N.W. of town and 26 acres extra. <i>Water</i>.—Plentiful from 4 tanks and 2 wells. <i>Fuel</i>.—Up to 25 cartloads. <i>Fodder</i>.—Grazing, 2,200 acres at 2 m. distant, for 5,000 animals. <i>Supplies</i>.—Grain for 500 men and 100 animals for 3 days. Sheep 50; goats 50. Vegetables 2 maunds daily.</p>
		338m. 2f.	
		32	
		353m. 2f.	<p>ANANTAPUR.—15 m. 0 f. Metalled road, fit <i>b.p.</i> (335). for motors. Country undulating with wet cultivation and jungle. 2½ m. Kunnada- valli river, bridged. 3 m. Chondi. 5½ m. Tuppur.</p>

ROUTE NO. 15.

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	

DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.

GENERAL OFFICER COMMANDING, BANGALORE.

33

368m. 2f.

Camping-ground.—E. and N.
Water.—Unlimited supply from tanks.
Fuel.—Up to 20 cartloads.
Fodder.—12·4 acres of grazing 1 m. distant for 50 animals.
Supplies.—Not available.

SAGAR.—15 m. 0 f. Metalled road, fit for b.p. (3,684). Country undulating, with

thick jungle, partly cultivated. A good sized town on the Verda river. Headquarters of Sagar Sub-division. 8 m. Ullur. *nalas* bridged.

Camping-ground.—51·28 acres N. of town.
Water.—From the river, tanks and wells, unlimited supply.

Fuel.—Obtainable.

Fodder.—Grazing 43·17 acres for 200 animals within 1 m.

Supplies.—Grain for 500 men and 200 animals. Sheep 25; goats 10.

34

378m. 2f.

TALGUPA.—10 m. 0 f. Metalled road, fit for motors. Country partly open, jungle

with patches of cultivation. 3 m. Sharavati, *nalas* bridged.

Camping-ground.—20 25 acres W. of village.

Water.—Unlimited, from wells and tanks.

Fuel.—Nil.

Fodder.—Grazing, 330 acres, distant 1 m., for 500 animals.

Supplies.—None available.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15
Civil.	Military.		
DY. C. OF COLLECTOR OF N. KANARA, SHIMOGA, SHIMOGA, KARWAR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	35	<p>GERSOPPA FALLS.—9 m. 1½ f. Road fit for b. motors. Country hilly. Cross the Saravati river by ferry boat to reach the Mysore bungalow about 2 miles distant. <i>Camping ground.</i>—None selected. <i>Water.</i>—Unlimited supply. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing: 4,161 acres close by. <i>Supplies.</i>—None procurable.</p>
		387 m. 3½ f.	
		36	<p>MALEMANI.—9 m. 5 f. A village at the top (160). of the Govardhan- giri hill. Road fit for motors. 1½ m. Kodkani (260). 5 m. Hejari (26). <i>Camping-ground.</i>—220×88 yds. at 100 yds. E. of village. <i>Water.</i>—For 200 men and animals. <i>Supplies.</i>—None procurable.</p>
		397 m. 0½ f.	

ROUTE No. 15 (1).

FROM CHEYUR TO GOBICHETTI-PALYAM.

Road is a metalled one, and is good at all seasons of the year.

Direction.—N.-E.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15 (1).
Civil.	Military.		
COLLECTOR OF COIMBATORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		CHEYUR.—A large village, many wells about <i>p.</i> —supplies and water procurable.
		1	NAMBIYUR.—10 m. 6 f. <i>p.</i>
		10m. 6f.	
		2	KURUMANDUR.—4 m. 6½ f. <i>p.</i>
		15m. 4½ f.	
		3	GOBICHETTI.—7 m. 5 f. A large village; PALYAM.— many wells about; <i>b.p.t.</i> and is the headquar ters of the sub-district.
		23m. 1½ f.	

ROUTE No. 15 (2).

FROM PULLAMPATTI TO NAMBIYUR.

Road rough in places, but passable by carts all the year round.

Direction.—E.

COLLECTOR OF COIMBATORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		PULLAMPATTI.—A large village; water, <i>p.</i> etc., procurable at all times of the year.
		1	NAMBIYUR.—11 m. 5 f. <i>p.</i>
		11m. 5f.	

ROUTE No. 15 (3).

FROM ATTIKUPPA TO NAGAMANGALA.

A made road, practicable at all seasons.

Direction.—N.-E.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15 (3).
Civil.	Military.		
SUB-DIVISIONAL OFFICER, FRENCH ROCKS.	G. O. C., BANGALORE.		ATTIKUPPA.— <i>b. p.</i>
		1	NAGAMANGALA.—24 m. 2 f.
		24 m. 2 f.	<i>b. p.</i>

ROUTE No. 15 (4).

FROM HOLE NARSIPUR TO CHANNARAYAPATNA.

Cross the Hemavati river, unbridged; a made road practicable in the dry season only.

Direction.—N.-E.-E.

DEPUTY COMMISSIONER OF HASSAN, HASSAN.	G. O. C., BANGALORE.		HOLE NARSIPUR.— <i>b. p.</i>
		1	CHANNARAYAPATNA.—11 m. 6 f.
		11 m. 6 f.	<i>b. p.</i>

ROUTE No. 15 (5).

FROM BANAVARA TO SAKREPATNA.

Cross the Veda river, unbridged.

Direction.—W.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 15 (5).
Civil.	Military.		
DY COMM. OF KADUR, CHIKMAGALUR. HASSAN.	G. O. C., BANGALORE.		BANAVARA.— <i>b. p. r.</i>
		1	SAKREPATNA.—16 m. 0f. <i>b. p.</i>
		16 m. 0f.	

ROUTE No. 15 (6).

FROM TARIKERE TO HOSADRUG.

Direction.—E.

TARIKERE.—

b. p. t. r.

DEPUTY COMMISSIONER OF KADUR, CHIKMAGALUR.	G. O. C., BANGALORE.		
		1	HOSADRUG.—21 m. 0f.
		21m. 0f.	

ROUTE NO. 16.

FROM UDAMALPET TO KARUR.

Length.—67 m. 7 f.

7 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—Direction N. E. The road is metalled, but unbridged; practicable, however, for carts at all seasons, as floods in the streams subside in a few hours.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 16.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	1	UDAMALPET.— <i>Vide</i> Route No. 11, stage <i>b. p. t.</i> No. 14.
		10 m. 0 f.	KARATHOLUVU.—10 m. 10 f. Metalled road, <i>p.</i> (2,190). fit for motors. Country, dry cultivation. 5 m. Tandoni (401). 7 m. Thungavi (3,031). Cross 1 stream, stone dam. <i>Camping-ground.</i> —No good ground available. <i>Water.</i> —Unlimited, from river $\frac{1}{2}$ m. distant. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain—paddy only, in large quantities. Meat and vegetables <i>nil.</i>
		2	
		24 m. 0 f.	DHARAPURAM.—14 m. 10 f. Metalled road, fit <i>b. p. t.</i> for motors. Country cultivated. <i>Vide</i> Route No. 15, stage No. 2. Route No. 15 crosses and Route No. 27 joins here. 9 m. Dalaniparam (1,500). Cross 1 <i>nala</i> , bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 16.
Civil.	Military.		
COLLECTOR COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	3	NELAMBUR.—5 m. 7 f. Road fit for motors. Country cultivated.
		29 m. 7 f.	1 m. Kolungivadi (1,481). 4 m. Kolathurpalayam (1,000). 1 m. cross. Amaravathi river, bridged. <i>Nalas</i> bridged. <i>Camping-ground</i> .—Nil. <i>Water</i> .—From wells, for 1,500 men and 1,000 animals. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Paddy for 1,000 men for 1 month; grain for 100 horses for 10 days. Oxen 500; sheep 300; goats 200. Vegetables very scarce.
		4	MULNUR.—7 m. 7 f. Metalled road, fit for (500). motors. Country cultivated. Cross <i>nala</i> , fordable. <i>Camping-ground</i> .—41.17 acres S.-W. of village. <i>Water</i> .—For 500 men and animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain: small quantities on Wednesday. Oxen 300 (Wednesday). Vegetables, small quantities (Wednesday only).
		5	CHINNA DHARAPURAM.—11 m. 1 f. Metal- led road, fit for p. (1,500). motors. Country cultivated. 10 m. cross the Amravathi river. 2 boats available if in flood, fordable at other times. Route No. 28 crosses here. <i>Camping-ground</i> .—Extensive, E. of village.
		48 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 16.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—Unlimited supply from the river at $\frac{1}{2}$ m. S. of village.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing 30 acres, 3 m. from village.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 animals for 3 days. Sheep 100; goats 100. Vegetables for 1,000 men.</p>
		6	<p>TUMBIVADI.—10 m. Road fit for motors. (1,500). Country cultivated.</p>
		58 m. 7f.	<p>d. 2 m. Sudamanai. (100). 5 m. Passupattipalayam (150). 7 m. Kasipalayam (500). 8 m. Anaipalayam (100). Nalas fordable. Cross the Amaravathi river, unbridged.</p> <p><i>Camping-ground</i>.—Extensive, 2 m. N.-E. of village.</p> <p><i>Water</i>.—From a channel, except in April and May.</p> <p><i>Fuel</i>.—Obtainable from Forest Reserve 4 m. from village.</p> <p><i>Fodder</i>.—Grazing for 300 animals near camp.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 300 animals for 3 days. Sheep 100; goats 100.</p>
		7 67 m. 7f.	<p>KARUR.—9 m. Of. Vide Route No. 6, stage b. p. t. r. No. 18. Metalled road, fit for motors. Country cultivated. 2 m. Pavithalam (200). 5 m. Andankoil (200). 7 m. Lakshminayanasamudram (200).</p>

ROUTE No. 16 (1).

FROM MULNUR TO VELLAI KOVIL.

Road good, passable at all times of the year.

Direction.—N.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 16 (1).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	1	MULNUR.—A large village. Water, etc., procurable.
		15 m. 2 f.	VELLAI KOVIL.—15 m. 2 f. b.

ROUTE NO. 17.

FROM ADIRAMPATNAM to PULAMPATTI.

Length.—175½ m.

17 stages.

Authority and date.—General Officer Commanding, 9th Division, Jan 1919.

Epitome.—Direction—N.-W. The road as far as Gandharvakota is not metalled, and is only partially bridged; but the surface of the soil over which it passes being hard, it may be said to be practicable at all seasons. Water is scarce at some stages during the hot months, and fever prevails at the same season for a short time. Thence to Edapadi, it is gravelled and metalled as well as bridged, with the exception of two rivers between Namakal and Sankaridrug. The remainder of the road is gravelled and partially bridged; practicable at all seasons.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		ADIRAMPATNAM.—On coast. <i>Vide</i> Route <i>p. t. r.</i> No. 5, stage No. 21.
		1	PATUKOTA.—7m. 2f. <i>Vide</i> Route No. 7, <i>b. p. t. r.</i> stage No. 14.
		7m. 2f.	Road for first 2 m. is metalled, the remainder gravelled. Country cultivated. 2 m. Tokkalikadri. 4 m. Sendakotai. 5 m. Pallikondum. 6 m. Mudalsiri.
		2	NUMBIVAYEL.—7m. 0f. Road bad in wet weather. Country partly light jungle and partly cultivation. Cross three nalas, unbridged.
		14 m. 2 f.	<i>Water.</i> —From tanks. <i>Supplies.</i> —Nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	3	KALLAKOTTAL.—9m. 7f. Road fit for carts p. (1,574). only. Country flat and barren, partly cultivated. 1½ m. Kattaltheo. 3 m. Pudovidutheo (2 284). 6½ m. Tiruvennu.
		24 m. 1 f.	<i>Camping-ground</i> .—1½ m. E. of village. <i>Water</i> .—From tanks, for 1,000 men and animals. <i>Fuel</i> .— } Obtainable in Forest <i>Fodder</i> .—Grazing } Reserve ½ m. S. W. for 200 animals.
		4	<i>Supplies</i> .—(Sunday markets only) grain for 1,000 men and animals for 3 days. Sheep 50; goats 150. Vegetables scarce.
		31 m. 6 f.	GANDHARVAKOTA.—7 m. 5 f. <i>Vide</i> Route p. (2,502). No. 8, stage No. 4. Sandy Road, fit for wheeled transport. Country generally cultivated. Cross 3 streams, unbridged, fordable. 4½ m. Mettangal (756). <i>Camping-ground</i> .—18 acres, 1½ m. N. of village. <i>Water</i> .—From a tank, for 2,000 men and animals. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Grazing: 200 acres 1½ m. N., for 2,000 animals.
		5	<i>Supplies</i> .—Grain for 1,000 men for 3 days. Sheep 300; goats 100.
		42 m. 3 f.	SENJAPATTI.—10m. 5f. <i>Vide</i> Route No. b 14, stage No. 5. Gravelled road, fit for motors. 5 m. Viralipatti (1,200). 6 m. Tachankurichi (1,000) Road crosses several small channels, all bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	6	TUVAKUDI.—9 m. 5 f. <i>Vide</i> Route No 14; stage No. 6.
		52m. 0f.	
		7	TRICHINOPOLY.—12 m. 0 f. <i>Vide</i> Main Route No. 5, stage No. 16.
		64m. 0f.	
		8	SALIYATI.—12 m. Metalled road; fit for all transport. Country open and cultivated. From the Putur Bridge. (2,081). Road crosses the Cauvery river, 660 yards, brick bridge, at 2½ m., and the Colaroon river, 880 yards, at 4 m., also brick bridge. 4½ m. Canal, 60', brick bridge, and Villitirumanthair (2,081). 7 m. Bikshaidareoil. (2,273). 8 m. Madavaperumakoil (1,370). 9 m. Tirnvasan, (1,160). 11 m. Melpatthan (1,651). <i>Camping-ground</i> .—14 acres, E. of village. <i>Water</i> .—From canal and 2 wells, unlimited. <i>Fuel</i> .—Cut, plentiful. <i>Fodder</i> .—Nil. <i>Supplies</i> .—From Trichinopoly.
		9	MUSIRI.—14m. 2f. Metalled road, fit for all transport. Country to the N. open and cultivated, to the S. wooded. 4½ m. Iyar river, 20', iron bridge. 5 m. Konasalem (1,752). 6 m. Amur (1,872). 9 m. Eadur (2,088). 9½ m. Aiyampalayam (2,717). 12 m. Umanapuram (517).
		90m. 2f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	10	<p><i>Camping-ground</i>.—Extensive, N. of town.</p> <p><i>Water</i>.—From river and wells, unlimited.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Supplies</i>.—Grain for 60 men and 400 animals for 7 days. Sheep 11; goats 10. Vegetables scarce.</p>
		98m. 7f.	<p>TOTIAM.—8 m. 5 f. Road and country, as (3,490). for last stage.</p> <p>Cross 3 <i>nalas</i>, brick, bridged, and at 2½ m. <i>nala</i>, 200', unbridged, fordable, except after heavy rain; 10 boats for 20 men each available. 4 m. Manawad. (1,114). 5 m. Siranivasanallur (1,680).</p> <p><i>Camping-ground</i>.—Good, 200 acres, W. of town.</p> <p><i>Water</i>.—Unlimited, from stream and wells.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Supplies</i>.—Grain for 500 men and animals for 7 days. Sheep 10; goats 10.</p>
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	11	<p>VALAYAPPATTI.—12 m. Of. Gravelled road, b.p. (2,274). fit for motors throughout. Country cultivated. Cross 1 stream, bridged. 4 m. Elurpatti (1,500). 8 m. Arikishna Valichatram (150). 10½ m. Mettopattinitta (1,000).</p>
		110m. 7f.	<p><i>Camping-ground</i>.—For 1 regiment, E. of village.</p> <p><i>Water</i>.—From a stream, for 1,000 men and 500 animals.</p> <p><i>Supplies</i>.—Grain, oxen and sheep, <i>nil</i>. Goats 20. Vegetables in small quantities.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	12	NAMAKAL.—8 m. <i>Of.</i> Vide Route No. 6, <i>b.p.s.</i> stage No. 21. Metalled road, fit for motors. Country cultivated. Cross a stream, bridged. 2 m. Pedupatti (2,272). 4 m. Veppanattam. (913).
		118m. 7f.	
		13	PUTTUR.—8 m. Metalled road, fit for motors. (5,468). Country open and cultivated, here and there rocky. 7 m. Nallipalliam. Cross 2 streams, bridged. <i>Camping-ground.</i> —Nil. <i>Water.</i> —From wells inadequate; good supply in rains only. <i>Fuel.</i> —Very scarce. <i>Grazing.</i> —In rains only. <i>Supplies.</i> —From Velakoundampatti (Tuesday only) grain obtainable. Oxen 300; sheep 400; goats 250. Vegetables available.
		126m. 7f.	
		14	TIRUCHENGOD.—15m. 4f. Metalled road, fit for motors. Country open and generally cultivated. Route No. 32 crosses here. 1 m. Velakonudampatti (523). 3 m. Kuttrampundi (1,772). 6½ m. Nullagoundenpatti (613), 12¼ m. Komaramangalam (3,645). <i>Camping-ground.</i> —Dry patta lands near village. <i>Water.</i> —Scanty in hot weather. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing for a small number of animals.
		142m. 3f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<i>Supplies.</i> —Grain in moderate quantities for men and animals. Oxen 356, sheep 1,036; goats 360. Vegetables available.
		15	SANKARIDRUG.—7 m. 0f. Metalled road, fit for motors. Country open and cultivated. 5 m. Monour (4,983). <i>Vide</i> Route No. 13, stage No. 18.
		149m. 3f.	
		16	EDAPADL.—9 m. 2 f. Metalled road, fit for motors. Cross an unbridged stream at 9½ m., fordable. 3 m. Devanagoundenur (2,722). <i>Camping-ground.</i> —Nil. <i>Water.</i> —Supply insufficient, except in rains. <i>Fuel.</i> — } Nil. <i>Grazing.</i> — } <i>Supplies.</i> —(Wednesdays) market. Grain in large quantities. Oxen 362; sheep 448; goats 485. Vegetables available.
		148m. 5f.	
		17	PULAMPATTI.—16 m. 7 f. Near Nerinjipettai (2,773). on Route No. 27, stage No. 7. Metalled road, fit for motors. Country open and cultivated. <i>Camping-ground.</i> —Nil. <i>Water.</i> —Cauvery river, plentiful supply. <i>Fuel.</i> — } Nil. <i>Fodder.</i> — } <i>Supplies.</i> —Grain nil. Oxen 270; sheep 2,221; goats 1,483. Vegetables available.
		175m. 4f.	

ROUTE No. 17 (1).

FROM MUSIRI TO TURAIYUR.

Road metalled and bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17 (1).	
Civil.	Military.			
COLLECTOR OF TRICHINO- POLY, TRICHINOPOLY.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	MUSIRI— <i>b. p.</i>	..
		1 17 m. 6½ f.	TURAIYUR.—17 m. 6½ f. <i>p.</i>	

ROUTE No. 17 (2).

FROM ANDAPURAM TO VALAYAPPATTI.

Road partially metalled, practicable at all seasons.

Direction.—North.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	ANDAPURAM— <i>p.</i>	..
		1 4 m. 5 f.	VALAYAPPATTI.—4 m. 5 f. <i>b. p.</i>	

ROUTE No. 17 (3).

FROM PUTTUR TO MINNAMPALLI.

Gravelled as far as Dattadripuram, beyond that a track only.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17 (3).
Civil.	Mil- itary.		
COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PUTTUR.—
		1	DATTADRIPURAM.—
		2	MINNAMPALLI.—9 m. 0 f.

ROUTE No. 17 (4).

FROM PUTTUR TO VYAPPAMALAI.

A good road, gravelled and practicable at all seasons.

Direction.—North.

COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PUTTUR.—
		1	VYAPPAMALAI.—9 m. 0 f.

No. 17 (5).

FROM JEDARPALAIYAM TO TIRUCHENGOD.

A good road, gravelled though not bridged, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 17 (5).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	JEDARPALAIYAM.—On the Cauvery river.
		1	CHITLANDUR.—12 m. 4 f. On Route No. 6 (6).
		12 m. 4 f.	
		2	TIRUCHENGOD.—9 m. 2 f. <i>p. t.</i>
		21 m. 6 f.	

No. 17 (6).

FROM TIRUCHENGOD TO PERIYUR.

Cross the Konnaiyar river, unbridged, fordable; a partially metalled and bridged road, practicable at all seasons.

Direction.—North-North-West.

COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TIRUCHENGOD.— <i>p. t.</i>
		1	PERIYUR.—(Near Salem) 20 m. 0 f.
		20 m. 0 f.	

ROUTE No. 18.

FROM KARUR TO KAMPLI.

Length.—421 m. 5½ f. stages—37.
 Authority and date.—General Officer Commanding, 9th Division, June 1910.

Epitome.—General direction north-west. As far as Hassansur, the road is a good one, metalled and partially bridged; the hill, which is altogether six miles long, is well made and presents no difficulties, the gradients being easy. From Hassansur to Kollegal, a new road has been constructed and is practicable for carts in the dry season, but is difficult in the rainy season. Fever is always very prevalent about the hill. From Kollegal to Sivasamudram, the road is metalled; thence to Maddur, it is a made road, gravelled and bridged, practicable but rather heavy in the monsoons. Beyond that, it is a made road bridged and practicable for carts at all seasons as far as Tumkur; thence to Bellary, it is metalled and bridged, with the exception of the large streams. The road from this station to Kampli is metalled and practicable at all seasons; thence, it is partly gravelled, partly country track, but fit for bullock carts.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	1	KARUR.— <i>Vide</i> Route No. 6, stage No. 18.
		14 m.	NOYIL-KUPAM.—14 m. Metalled road, fit for all transport. <i>b.p.t.r.</i> 2 m. Kottamedu (735). 8 m. Punnamchatram. Cross the Noyil river, unbridged. Country open, undulating, and cultivated. <i>Camping ground.</i> —10 acres N.-W. of station. <i>Water.</i> —Unlimited, from the Cauvery and Noyyal rivers. <i>Fuel.</i> —Obtainable.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 18.
Civil.	Mil- itary.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Fodder</i>.—Grazing for 500 animals $1\frac{1}{2}$ m. from camp.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 300 animals for 3 days. Sheep 100; goats 100. Vegetables in small quantities.</p>
		2	<p>MULAIYAMPALAIYAM.—13 m. 4f. Metalled (150). road, fit for wheeled transport, not for motors. Road goes through tract of rich cultivation. Cross 3 nalas, bridged, and 7 nalas; unbridged, fordable. At $\frac{3}{4}$ m. Noyil river, unbridged, fordable except in heavy flood.</p> <p><i>Camping ground</i>.—About 40 acres N.-W. of village.</p> <p><i>Water</i>.—Supply plentiful from channel of the Cauvery.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 70 acres, $1\frac{1}{2}$ m. distant, for 100 animals.</p> <p><i>Supplies</i>.—Paddy for 12,500 men for 1 day. Sheep 20; goats 30. Country vegetables only.</p>
		27 m. 4f.	
		3	<p>7 m. AVUDAYPARAI (419).</p> <p>2 m. CHENNASAMUDRAAI (241).</p> <p>4 m. KODUMADI (3119).</p> <p>5$\frac{1}{2}$ m. VENGANIBER (6810).</p> <p>8$\frac{1}{2}$ m. NUJALIR (5494).</p> <p>10$\frac{3}{4}$ m. PUJAIKOLANALLI (4994).</p>
		40 m. 4f.	
			<p>ERODE.—13 m. Vide Route No. 13, stage b., p., t. r. No. 16. Metalled road, fit for motors. Country open and cultivated. At $6\frac{1}{2}$ m. Chavadipalayam (100).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		4	KAUNDAPADL.—14 m. 7 f. Metalled road, fit for motors. Country undulating and
		55 m. 3 f.	jungly, cultivation at intervals.
			Route No. 27 is crossed in this stage at Sitodu. Cross 3 nalas, unbridged, fordable. 3 m. Sankao (500). 6 m. Sithodu (1,000). 8 m. Settupalayam (200). 13 m. Saimavettapalayam (100). <i>Camping ground.</i> —19.2 acres S.-E. of village. <i>Water.</i> —From 5 wells, supply scanty. <i>Fuel.</i> — } <i>Nil.</i> <i>Fodder.</i> — } <i>Supplies.</i> —From Erode—locally, grain for 100 horses. Sheep 100; goats 100. Country vegetables in small quantities.
		5	GOBICHETTIPALYAM.—9 m. Metalled road, fit for motors. Country cultivated.
		64 m. 3 f.	Cross 2 streams, bridged. 5-6 m. Pichandampoliam-Polanakkallipalliam (2,501). 8 m. Karathur (1,676). <i>Camping ground.</i> —21.66 acres close to river. <i>Water.</i> —From the Bhavani 1 m. N. Supply plentiful. <i>Fuel.</i> —500 tons. <i>Fodder.</i> — <i>Nil.</i> <i>Supplies.</i> —Grain to any extent required. Oxen 400; sheep 1,000; goats 1,000. Vegetables scarce.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	6	KASHIPALAIYAM.—7 m. Metalled road, fit (1,030) for motors. Country undulating and covered with low bush jungle, but cultivated on both sides of the road.
		71 m. 3 f.	1 m. Nullagoundenpalayam. 1½ m. Karattadi- palayam (together 1,264). Cross a nala, un- bridged.
			<i>Camping ground.</i> —4·11 acres ½ m. from road.
			<i>Water.</i> —Plentiful, from channel, tanks and wells.
			<i>Fuel.</i> —Obtainable ¾ m. distant. Grazing nil.
			<i>Supplies.</i> —Paddy for 7,000 men for 10 days. Oxen 1,000; sheep 1,000; goats 1,000. Vege- tables small quantities only.
		7	SATYAMANGALAM.—9 m. <i>Vide</i> Route <i>b. p. t.</i> No. 15, stage No. 8.
		80 m. 3 f.	Road fit for motors. Country jungly.
			Hills on the E.; some ravines cross the road. Cross the Bhavani river, bridged. Cross 2 streams, unbridged, fordable.
			5 m. ARASUR (350).
		8	BENNARI-CHATTRAM.—8 m. 2½ f. Road <i>b.</i> fit for motors.
		88 m. 5½ f.	<i>Vide</i> Route No. 15, stage No. 9. Country at first cultivated; then jungly; no village within 5 miles. Fever always prevalent. Cross 5 streams, unbridged, fordable.
		9	HASSANUR.—13 m. Road fit for motors. <i>Vide</i> Route No. 15; stage No. 10. The hill is a succession of zigzags. Average
		101 m. 5½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			gradient 1 in 15. Country jungly; fever always prevalent. Ascend the Hassanur hill. No villages near road. Cross a nala, unbridged, fordable.
		10	GEDDISAL.—7 m. Road gravelled, unfit for
		108 m. 5½ f.	b. (30). motors, out of repair. No village near road. Country jungly. Cross 2 nalas, unbridged, fordable except in heavy flood. Forest bungalow and a few huts only.
			Camping ground.—E. of bungalow, in Forest Reserve. Water.—None in hot weather. Fodder and Grazing.—In Forest Reserve. Supplies.—Scanty.
		11	BAILUR.—13 m. Road, as for last stage.
		121 m. 5½ f.	b. (278). Country cultivated.
			Camping ground.—About 50 acres S. of village, and 70 acres more, if necessary. Water.—Scanty. Fuel.— } From Forest Reserve close Fodder (grazing).— } by. Supplies.—Grain: ragi only, in large quantities. Oxen 50; sheep 30; goats 30.
		12	UDAIYARPALAIYAM.—3 m. 6 f. Gravelled
		125 m. 3½ f.	(420). road, fit for motors. Country cultivated.
			No villages near road. Camping ground.—50 acres S. of village, and 50 acres more, if required. Water.—From a tank, for 50 men and animals. Fuel.—Small quantities can be cut.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Fodder</i>.—Grazing 1 m. in Forest Reserve.</p> <p><i>Supplies</i>.—Grain, ragi only. Oxen 10; sheep 15; goats 15.</p>
		13	<p>LAKENHALLI.—11 m. 4 f. Gravelled road, fit for motors. Country, jungle and forest alternately. No villages. Cross 6 nalas, unbridged, fordable.</p> <p><i>Camping ground</i>.—160 acres E. of village, and 150 acres more, if required.</p> <p><i>Water</i>.—From a tank and wells, for 200 men and animals.</p> <p><i>Fuel</i>.—Obtainable from Forest Reserve.</p> <p><i>Fodder</i>.—Grazing in Forest Reserve for any number of animals.</p> <p><i>Supplies</i>.—Grain after harvest only. Oxen 50; sheep 200; goats 200. Vegetables <i>nil</i>.</p>
		136 m. 7½ f.	
		14	<p>KOLLEGAL.—15 m. 4 f. Gravelled road, fit for motors. Country near open and cultivated. Route No. 19 crosses here.</p> <p>13 m. Mattuvamulli (2,997). Haruvandpur (1,331). 14 m. Sithaganapuram (957).</p> <p>Cross 1 small stream, unbridged, fordable.</p> <p><i>Camping ground</i>.—4·26 acres N. W. of town, and 50 acres.</p> <p><i>Water</i>.—From wells and tanks, for 1,000 men and cattle.</p> <p><i>Fuel</i>.—1,000 maunds.</p> <p><i>Fodder</i>.—Grazing: 50 acres, 2 m. distant, for 200 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 1,000 animals. Oxen 100; sheep 100; goats 100. Vegetables <i>nil</i>.</p>
		152 m. 3½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	15	SIVASAMUDRAM.—10 m. 4 f. Road gravelled, fit for motors.
		162 m. 7½ f.	b. p. (80). Situated on an island. Country open, flat and cultivated.
			The falls are not high, but are well worth a visit and are near the site of the ancient city of Ganjaraja; the bungalow here is a private one; the town belongs to the British and is within their jurisdiction; there is a good road from Malvalli to Sivasamudram; the place is likely to become very important, as the falls have been utilized for generating electricity. Cross a stream, unbridged, and the Cauvery river, 9½ m. bridged.
			At 5 m. Satyagola (80). Camping ground.—50 acres S. of village, and further ground is available. Water.—Unlimited supply. Fuel.—Obtainable. Fodder.— } Supplies.— } Nil.
		16	MALVALLI.—12 m. Metalled road, fit for motors. Country open, flat and cultivated. A Municipal town; healthy.
		174 m. 7½ f.	Cross the Cauvery, bridged. Route No. 24 crosses here. 7 m. Dasandaddi. 8½ m. Boachalli. Camping ground.—9·27 acres between fort and village. Water.—For 5,000 men and 1,000 cattle for 1 week. Fuel.—1 cartload. Fodder.—Grazing nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	DY. COMMR. OF MYSORE DISTRICT, BANGALORE.		<p><i>Supplies.</i>—Grain for 100 men and animals for 1 week. Sheep 25; goats 25.</p>
		17	<p>ARASANKERE.—9 m. 2 f. Metalled road, fit (866). for motors, country open and cultivated, all nalas bridged.</p>
		184 m. 1½ f.	<p><i>Camping ground.</i>—5·38 acres W. of village. <i>Water.</i>—Unlimited supply from the Hebballa river. <i>Supplies.</i>—Sheep 25; goats 25 only.</p>
		18	<p>MADDUR.—8 m. 6 f. <i>Vide</i> Main Route No. VI, b. p. stage No. 14. Metalled road fit for motors. ½ m. cross Hebballa river, bridged Country as before.</p>
	GENERAL OFFICER COMMANDING, BANGALORE.	192 m. 7½ f.	<p>TUMKUR DISTRICT.—9 m. 6 f. (boundary).</p> <p>1 m. Nidsala; 2½ m. Hommachanhalli. Cross 2 streams, bridged. Country partly cultivated and partly jungle.</p>
		19	<p>HULIYURDURGA.—5 m. 6 f. Metalled road, p. (500). fit for motors. Country partly cultivated, partly jungle.</p> <p><i>Camping ground.</i>—20 acres S. of village and 10 acres near by. <i>Water.</i>—500 men and 500 cattle. <i>Fuel.</i>— <i>Fodder.</i>—(grazing) } In Forest Reserve. <i>Supplies.</i>—Grain for 500 men and 1,000 cattle for 1 week. Sheep 100; goats 100. Vegetables for 200 men.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR. GENERAL OFFICER COMMANDING, BANGALORE.		20	<p>KUNIGAL.—14 m. 4 f. Metalled road, fit for motors. Country partly cultivated and partly jungly.</p> <p>Route No. 39 crosses here.</p> <p>Cross 3 streams, bridged.</p> <p>1½ m. Vajarkopal. 2½ m. Hosahalli. 5¼ m. Dodmatkur. 7¼ m. Sor timavathur. 12 m. Hanamapur. 12¾ Kut'pur.</p> <p>Camping ground.—25 acres N. of town, and 25 acres additional.</p> <p>Water.—From a tank, for 1,000 men and 500 cattle.</p> <p>Fuel.—Plentiful.</p> <p>Fodder.—Grazing 1¾ m. distant, for 1,000 animals for 15 days.</p> <p>Supplies.—With notice, grain for 750 men for 1 week.</p> <p>Sheep 100; goats 50. Vegetables for 200 men.</p>
		222 m. 7½ f.	
		21	
		23 m. 2½ f.	
		22	<p>HEBBUR.—9 m. 3 f. Metalled road, fit for motors. Country open and cultivated.</p> <p>Cross 1 stream, bridged.</p> <p>2 m. Kottigere (573). Honnenhalli (197). 7 m. Chickmalalwadi (337).</p> <p>Camping ground.—Nil.</p> <p>Water.—For 200 men and 50 cattle.</p> <p>Fuel.—Nil.</p> <p>Fodder.—Grazing: 53 acres ½ m. distant.</p> <p>Supplies.—On notice from Tumkur.</p>
		247 m. 2½ f.	
			<p>TUMKUR.—15 m. Vide Main Route No. IV, b. p. r. stage No. 23.</p> <p>Road partly metalled and partly gravelled, all streams and nalas are bridged. 3 m. Balgere. 5 m. Tarur. 11 m. Gulur. 12¾ m. Marlur.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.	23	AGRAHARA.—12 m. 4 f. Road metalled, (712). in fair order, fit for motors. All streams and nalas bridged. Country cultivated.
		259 m. 6½ f.	2½ m. Antharasi. 2¾ m. Yellapur. 1 m. Arakere. 5½ m. Hcsahalli. 6½ m. Lingapui. 7½ m. Vohlapur. 9½ m. Beldhea. 11 m. Taradi (432). The Swarnamukhi river, bridged, passes the village. <i>Camping ground.</i> —37·21 acres, N. E. of village. <i>Water.</i> —For 200 men and 400 animals. <i>Fuel.</i> —From Forest Reserve 1½ m. distant. <i>Fodder.</i> —Grazing about 300 acres 1½ m. distant. <i>Supplies.</i> —(With notice). Grain for 100 men and animals for 3 days. Sheep 20; goats 15. Vegetables, limited supply only.
		24	MADDAGIRI.—14 m. Road fit for motors. b p. (4,820). Country partly cultivated, partly rocks and jungle. Cross 2 streams, bridged.
		273 m. 6½ f.	A remarkable fort here, on a hill, in fair state of preservation. 3¼ m. Kortagiri. 7 m. Thurukowadi. <i>Camping ground.</i> —No fixed site. <i>Water.</i> —Supply limited, from 1 tank and 1 well. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing: 31 acres at 1 m. for 100 animals. <i>Supplies.</i> —Grain nil; goats 150. Vegetables for 100 men daily.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
DY. COMM. OF ANANTAPUR, ANANTAPUR.	DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	25	MIDIGESI.—12 m. Metalled road, fit for b. (1,000). motors (fair order). Country partly cul- tivated, partly rocks and jungle. Cross 2 streams, bridged. 6½ m. Hosakeri. 7¼ m. Tippondahalli. 10 m. Chinnavanhalli. <i>Camping ground.</i> —Nil. <i>Water.</i> —Nil (probably means available in rains only). <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing: 883·16 acres, 1 m. away, for 2,000 cattle. <i>Supplies.</i> —Grain nil, sheep 50, goats 50.
		285 m. 6½ f.	
		26	MADAKASIRA.—10 m. Road is metalled for p. (5,300). 1st 5 m., thence gravelled, fit for motors. Country partly cultivated. 3 m. Bidarakerai. 5 m. Nalla Kamanhalli. <i>Camping ground.</i> —14·37 acre N. E. of village, also about 60 acres near by. <i>Water.</i> —For 200 men and 100 animals <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing: 500 acres, 3 m. distant. <i>Supplies.</i> —Grain for 500 men and 200 animals for 3 days. Sheep 100, goats 40, vegetables nil.
		295 m. 6½ f.	
DY. COMM. OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.	27	PAVAGADA or 12 m. Road fit for motors, PAUGARH. partly metalled and p. (2,337). partly gravelled. Country partly cultivated. 3¼ m. Amandahalli. 6¾ m. Rajananthe. All nalas bridged. <i>Camping ground.</i> —½ sq. m. around village.
		307 m. 6½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	DEPUTY COMM. OF TUMKUR.		<i>Water.</i> —Deficient. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing for 2,000 animals about $\frac{1}{2}$ m. distant. <i>Supplies.</i> —Grain with notice only. Oxen 200; sheep 2,000; goats 2,000.
		28	KAMBADUR.—17 m. Road fit for motors.
		324 m. 6 $\frac{1}{2}$ f.	<i>p.</i> Cross 2 streams, unbridged. <i>Camping ground.</i> —330 yds. square W. of a grove—high and gravelly. <i>Water.</i> —Abundant, from an irrigation tank, $\frac{1}{2}$ m. distant. <i>Supplies.</i> —Plentiful.
		29	DAISRAMPALLI.—9 m. 1 f. Metalled road fit for motors. Country open: dry cultivation.
		333 m. 7 $\frac{1}{2}$ f.	2 m. Handipalli (545). 5 m. Hadiridevasapalli (334). 6 m. stream, unbridged, fordable. 7 m. Mulakanur (554). 8 m. stream, 20 yds. wide 3 ft. deep, fordable. <i>Camping ground.</i> —To the south, high and hard. <i>Water.</i> —Sufficient for 1,000 men and animals. <i>Fuel.</i> — } Nil. <i>Fodder.</i> — }
	GENERAL OFFICER COMMANDING, BANGALORE.	30	KALYANDRUG.—8 m. Metalled road, fit for motors. Country open, but rocky here
		341 m. 7 $\frac{1}{2}$ f.	<i>p.</i> (4,333). and there. A fort on a rock here. 1 m. Bydarapalli (185). 2 m. Kamsevarapalli (122). 5 m. Yeovampalli (251).

AUTHORITIES.

Civil.	Military.
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No. of stage and total distance.

ROUTE No. 18.

COLL. OF ANANTAPUR,
ANANTAPUR.

COLLECTOR OF BELLARY, BELLARY.

GENERAL OFFICER COMMANDING, BANGALORE.

5 m. stream, 20', stone bridge. 5½ m. stream, 20 yds. 3' deep, fordable.

Camping ground.—S. of village.

Water.—For 1,000 men and animals.

Fuel.—Plentiful, but notice required.

Supplies.—For 1,000 men and animals for 5 days; oxen 5; sheep 20; goats 20.

31

GUNDLAPALLI.—14 m. 4 f. Metalled road, fit for motors. Country open, but rocky

356 m.

3½ f.

here and there.

3 m. Gobarnapalli (243). 9 m. stream, 40 yds. 4' deep, fordable. 14 m. Hugri river, ¼ m. broad, fordable, 8' deep in rains.

Camping ground.—220 yds. square to the S.

Water.—Abundant, from the Hugri river.

Supplies.—From Belarguppa, 6 m. distant.

32

ERRAGUNTA.—10 m. 2 f. Metalled road, fit for motors. Country open and cultivated.

366 m.

5½ f.

½ m. Hugri river, 880 yds., fordable, unbridged.

1 m. Veparalla (1,178). 3 m. Negireddipalli (5,172).

3 m. stream, unbridged, 50 yds, fordable. 5 m.

stream, unbridged, 40 yds, fordable. 5 m;

Pullampalli (1;860).

Camping ground.—W. of village.

Water.—From wells, for 3,000 men and 2,000 animals.

Fuel.—Nil.

Fodder.—Grazing for 300 animals, 3 m. from camp.

Supplies.—Grain for 100 men and 50 animals for 3 days.

Sheep 100; goats 90. Vegetables nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE,	33	BOMMANAHAL.—11 m. 6f. Metalled road, (1,080). fit for motors. Country open and cultivated.
		378 m. 3½ f.	6 m. Uddihalli (642). 6½ m. cross the Chinna Hugri river, 440 yds., unbridged, fordable. <i>Camping ground.</i> —Nil. <i>Water.</i> —From 2 wells, for 2,000 men and animals. <i>Fuel.</i> — } <i>Fodder.</i> — } Nil. <i>Supplies.</i> —Grain for 100 men and 50 animals for 3 days. Sheep 100; goats 100. Vegetables nil.
		34	BELLARY.—11 m. 4 f. Metalled road, but unfit for motors.
		389 m. 7½ f.	<i>b. p. t. r.</i> (239, 26). A large civil station and town, with a fort and a Military cantonment. Headquarters of the District Collector. Routes Nos. 23 and 26 cross here. 4 m. Burranayallampalli (150). 8 m. nala, 30 yds., 6' deep, fordable. 10 m. nala, 30 yds., unbridged, fordable, 3' deep. 10½ m. nala 25 yds, unbridged, fordable, 3' deep. <i>Camping ground.</i> —Plentiful. <i>Water.</i> —Plentiful, from a tank and wells, but not easily accessible. <i>Fuel.</i> —Unlimited. <i>Fodder.</i> —Nil. Grass obtainable from Military Grass Farm. <i>Supplies.</i> —Unlimited, of all sorts obtainable.
		35	KUDATINI.—11 m. 6 f. Road fit for motors in this stage. Country flat and open.
		401 m. 5½ f.	<i>b. p. r.</i> (5063). (from the fort).

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>Railway station is $1\frac{1}{4}$ m. from village and connected by a feeder road.</p> <p>Route No. 38 joins here.</p> <p>Cross 2 streams, stone-bridged.</p> <p>5 m. Alipuram (756).</p> <p><i>Camping ground.</i>—1,100 yds. \times 440 yds.</p> <p><i>Water.</i>—Unlimited, from wells.</p> <p><i>Fuel.</i>—Stocked in village.</p> <p><i>Fodder.</i>—Obtainable from a contractor.</p> <p><i>Supplies.</i>—Obtainable on requisition.</p>
		36	<p>DAROJI.—8 m. Road fit for motors. Country <i>b. p. t.</i> (3178). try flat and open.</p> <p>Railway station 3 miles S. of village.</p> <p>3 m. Thimalapur (296). At $3\frac{1}{2}$ m. and 7 m. cross a nala, fordable.</p> <p><i>Camping ground.</i>—S. of village, 440 yds. \times 220 yds.</p> <p><i>Water.</i>—Unlimited, except when tank is dry.</p> <p><i>Fuel.</i>—Up to 50 cart loads obtainable within $\frac{1}{4}$ m.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 50 men for 2 days.</p> <p>Goats 15. Vegetables <i>nil</i>.</p>
		409 m. $5\frac{1}{2}$ f.	
		37	<p>KAMPLI.—12 m. Road fit for motors. Country flat and open. Road requires repairs at $2\frac{1}{2}$ m. and at 5 m.</p> <p>Route No. 44 crosses at this stage; cross 2 nalas; unbridged but fordable. River is $\frac{1}{4}$ m. from camp, fordable in dry seasons, but boats are nearly always necessary (4 or 5 boats available at a time).</p> <p>$2\frac{1}{2}$ m. Devalapur (761) 5 m. Metri (792).</p>
		421 m. $5\frac{1}{2}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18.
Civi.	Mili- tary.		
COLLECTOR OF BEL- LARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.		
			<p><i>Camping ground.</i>—770, × 440, E. of village.</p> <p><i>Water.</i>—From a tank and well, unlimited except from January to March.</p> <p><i>Fuel.</i>— } <i>Nil.</i></p> <p><i>Fodder.</i>— }</p> <p><i>Supplies.</i>—Grain for 200 men and 100 animals for 1 week.</p> <p>Goats 10. Vegetables 15 lbs. daily.</p> <p>For continuation see Vol. VI, Indian Route Book.</p>

No. 18 (1).

FROM KAUNDAPADI TO TOPUR.

Epitome.—Partly gravelled, but not bridged, practicable at all seasons.

Direction.—North-West by West.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		KAUNDAPADI.
		1	BHAVANI.—9 m.
		9 m.	<i>b.p.t.</i>
		2	EDAPADI.—16 m.
		25 m.	
		3	YELAKANTAPURAM.—9 m.
		34 m.	
		4	NANGAVELLI.—4 m. 5 f.
		38 m.	<i>p.</i>
		5 f.	
		5	MECHERI.—6 m.
		44 m. 5 f.	<i>p.</i>
		6	TOPUR.—11 m. 3 f.
		56 m.	

No. 18 (2)

FROM BAILUR TO AJJIPURAM.

Epitome.—Cross the Odonthorai and several smaller streams, unbridged. The road is neither metalled nor bridged; the river and streams are impassable after a few hours' rain; no boats; fever always prevalent; road fit for pack animals only.

Direction.—North-North-East.

AUTHORITIES.		No of stage and total distance.	ROUTE No. 18 (2).
Civil.	Military.		
COLLECTOR OF COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		BAILUR. <i>b.</i>
		1	PORASE GOUNDEN PALAIYAM.—8 m. 2 f. There is a gold mine here.
		8 m. 2 f.	
		2	AJJIPURAM.—14 m. 6 f. On Route No. 19.
		23 m.	

No. 18 (3).

FROM HULIYARDURGA TO BANGALORE.

Epitome.—A good fair-weather road.

Direction.—East.

D. C. OF MYSORE D.C. OF TUMKUR, DISTRICT, TUMKUR.	G. O. C., BANGALORE.		HULIYURDURGA. <i>p.</i>
		1	MAGADI.—9 m. <i>p.</i>
		9 m.	
		2	BANGALORE.—29 m. <i>b.p.t.r.</i>
		38 m.	

No. 18(4).

FROM JANAGAL TO MAGADI.

Epitome.—Cross the Belvadi river; unbridged.*Direction.*—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 18 (4)
Civil.	Military.		
D. C. OF MYSORE DISTRICT.	G. O. C., BANGALORE.		JANAGAL.
		1	MAGADI.—14. m.
		14 m.	p.

No. 18 (5).

FROM HEBBUR TO GUBBI.

Epitome.—A gravelled road. A bridge is under construction over the river near Gubbi.*Direction.*—North.

DEPUTY COMMISSIONER OF TUMKUR.	G. O. C., BANGALORE.		HEBBUR—b.p.
		1	GUBBI—p.
		12 m.	12 m. 0 f.

No. 18 (6).

FROM MADAKASIRA TO KALYANDRUG.

Epitome.—Cross one stream, unbridged; a loop line of road practicable in the dry season.

Direction.—North by West.

AUTHORITIES.		No of stage and total distance.	ROUTE No. 18 (6).
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	G. O. C., BANGALORE.	1	MADAKASIRA— <i>p.</i>
		24m. 6f.	AMRAPUR .. 24 m. 6 f.
		2	KALYANDRUG— <i>p.</i> 31m. 2 f.
		56m.	

No. 18 (7).

FROM PENUKONDA TO MADAKSIRA

Epitome.—Cross the Penner river, unbridged. Partially bridged and metalled, remainder gravelled, generally practicable for carts at all seasons; the Penner is impassable for a day or two when in flood.

Direction.—South-West by West.

COLLECTOR OF ANANTAPUR, ANANTAPUR.	G. O. C., BANGALORE.		PENUKONDA.— <i>p.t.r.</i>
		1	MADAKSIRA.—26 m. 0 f.
		26 m.	<i>p.</i>

No. 18 (8).

FROM PAVAGADA TO KOTTACHERUVU.

Epitome.—A fair weather road, metalled only in places, impracticable in the monsoon. This road passes through a hilly country; there is a hill (gradient 1 in 10) at the 3rd mile.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 18 (8).
Civil.	Military.		
COLLECTOR OF ANANTAPUR. TAPUR, ANANTAPUR, DY. COMR. OF TUMKUR, TUMKUR.	G. O. C., BANGALORE.		PAVAGADA OR PAUGARH.— <i>p.</i>
		1	RADDAM.—7 m. 0 f.
	G. O. C., BANGALORE.	7 m.	
		2	PENUKONDA.—12 m. 0 f. Cross the Penner <i>p. t. r.</i> river, unbridged.
		19 m.	
		3	KOTTACHERUVU.—15 m. 4 f. Cross the <i>p.</i> Vengaparu stream, unbridged.
		34 m. 4 f.	

No. 18 (9).
FROM KUDATINI TO HOSPET.
BY RAMANDRUG.

Direction.—West.

Epitome.—A partially metalled and bridged road, practicable for carts at all seasons. The Ramandrug Hill is $6\frac{1}{2}$ miles long, with gradients from 1 in 27 to 1 in 40: the river is at times impassable for a day, owing to floods.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 18 (9).
Civil.	Military.		
COLLECTOR OF BELLARY DISTRICT, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	..	KUDATINI.—Camping ground high and dry, <i>b.p.</i> east of village, which is a fair one; water from wells and a <i>nala</i> ; country open and flat; soil black. Railway Station.
		1	YETHINAHATTI.—12 m. 6 f. A small village; <i>b.</i> supplies scanty; water plentiful; camping ground good.
		12m. 6f.	
		2	RAMANDRUG.—13 m. 6 f. A small sanitarium <i>p.t.</i> and a convalescent depot, 3,198 feet above sea-level; supplies from Sandur, the residence of the Raja. Water from tank and springs. Ascend the hill.
		26m. 4f.	
		3	HOSPET.—13 m. 0f. Cross one river, un- <i>b.p.t.r.</i> bridged. <i>Vide</i> Route No. 38, stage 35.
		39m. 4f.	

No. 18 (10).

FROM DAROJI to KAMALAPUR.

Epitome.—An unmetalled and unbridged road over a stony and gravelly country along the foot of the hills for the most part and practicable at all seasons.

Direction.—West by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 18 (10).
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	G. O. C. BELGAUM DIST., BELGAUM.		
		1	DAROJI.— b.p.t. KAMALAPUR.—12 m. p.

364GSB

3m

ROUTE NO. 19.

FROM CUDDALORE TO MANGALORE.

Length.—410½ m.

41 stages.

Authority and date.—General Officer Commanding, 9th Division, June 1910.

Epitome.—Direction N -W. As far as Salem, the road is metalled throughout and, with the exception of two rivers, is bridged; it is practicable for heavy wheeled traffic at all seasons, and is the best road between the two places. Thence to Solappadi it is metalled, passing over rocky undulating country. The hill near Mecheri is steep and in bad order. The country traversed is wild and jungly, and fever is generally prevalent. From Solappadi to Gerkikandi, it is a mere fair-weather track across rough country; thence to Kollegal, it is a good cart road, metalled and partially bridged; but from Kollegal to Narsipur, it is bad and impracticable during the monsoon, only the last 4 miles being metalled; five unbridged streams have to be crossed between these two places. From Narsipur to Velval, there is a good carriage road practicable at all seasons. The remainder of the road is metalled or gravelled, and, with the exception of the Netravati river, is bridged throughout; it is practicable for carts during the dry season, but troops should not march along it during the monsoon, when it is practically impassable. The country becomes hilly and rocky as Mangalore is approached, and fever is very prevalent at all times of the year.

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 19.
Civil	Military		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	1	CUDDALORE.— <i>Vide</i> Route No. 5, stage No. b. p. f. r. 33.
		6m. 6f.	NELLIKUPPAM.—6 m. 6 f. Metalled road, p. t. r. (1404). fit for motors. Country flat, open and cultivated. Route No. 23 joins here. 3 m. Kondur (410). 4 m. Sangikamanapuram (317). 5 m. Varkalpatta (1,583). 5½ m. Kuramasukuppa (1,592). 6 m. Kalpakambakam (1466).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping ground.</i>—Nil. <i>Water.</i>—From a channel and well, abundant. <i>Fuel.</i>—Large quantities available. <i>Fodder.</i>—Grazing 2 m. distant, plentiful. <i>Supplies.</i>—Of all sorts; with notice, in large quantities.</p>
		2	<p>PANRUTIL.—9 m. 2 f. <i>Vide</i> Route No. 9, <i>b. p. l. r.</i> stage No. 37. Metalled road, fit for motors. Country flat, open and cultivated. 1 m. Vydipakam (1,050). 1½ m. 2 villages (1,400). 4 m. village (3,000). 5 m. village (3,300). 7 m. village (5,400).</p>
		16m.	
		3	<p>VIRAPERUMANALLUR.—6 m. 5 f. Met- <i>p.</i> (3985). alled road, fit for motors. Country flat and cultivated. Cross the Malattar river, bridged. 1½ m. Amguchettipalayam (2,613). 3 m. Mamapakam (1142), 3½ m. Surakotta. (2,000). 4 m. Kolapakam (325). <i>Camping ground.</i>—West of village, beyond the tank. <i>Water.</i>—Plentiful, from a tank. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing 2 m. distant, plentiful. <i>Supplies.</i>—Procurable with notice.</p>
		22m. 5f.	
		4	<p>KIRANUR or ULUNDURPET.—13 m. <i>b. p.</i> (3,845). <i>Vide</i> Main Route No. 5, stage No. 24. Cross the Guddelam river, unbridged, ford- able. Gravelled road, fit for motors. Country flat and cultivated. 4 m Tirunamanallur (1,200). 7 m. Vandipals Yam (1,700). 9 m. Singivichi (800).</p>
		35m. 5f.	

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 19.

COLLECTOR OF SOUTH ARCOI CUDDALORE.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

5

50 m. 4 f.

TIAGUR OR TYAGADRUG.—14 m 7 f.
b. p. Metalled road, fit

for motors. Vil-

lage with a fortified hill close to it. Country
cultivation and jungle alternately.

1 m. Malasamadranai (780).

2 m. Alayam (574). 3½ m. pass a large tank,
round which a detour must be made in wet
weather.

4 m. Kanayur (806). Kamaramagolam (554).

7 m. Pidolam (4,560.) 8 m. Puttur (220).

9½ m. Sembimedier (716).

Camping ground.—Good and high, at the foot
of some rocks on the left of the road, the hill
being to the right.*Water.*—For 2,000 men and 1,000 cattle.*Fuel.*—From Forest Reserve 2 m. distant.*Fodder.*—Grazing for 1,000 animals in Forest
Reserve.*Supplies.*—Grain for 1,000 men and 500 animals
for 1 week.

Sheep 100; goats 100.

6

58 m.

KALLAKURCHI.—7 m. 4 f. Road fit for
b. p. (5,150). Country

flat and open, well

cultivated. 1½ m. Pridiviniagram (2,060).

3½ m. Madur (853). Cross 2 streams, bridged.

Camping ground.—75 acres W. of town; also
25 acres extra.*Water.*—For 2,000 men and animals.*Fuel.*—200 cwts., stacked.*Fodder.*—Grazing: 100 acres 1½ m. distant, for
2,000 animals.*Supplies.*—Grain for 1,000 men for 1 week and
1,000 animals for 1 day.

Sheep 50; goats 50; vegetables for 200 men.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		7	CHINNA SALEM.—8 m. 6 f. Metalled road, fit for motors. b. p. (6,894). Country flat and open and well cultivated. 4 m. Idi (600). Cross 1 stream, bridged. <i>Camping ground</i> .—50 acres W. of village, and 20 acres more. <i>Water</i> .—Good, for 2,000 men and animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing: 100 acres 3 m. distant, for 2,000 animals. <i>Supplies</i> .—Grain for 1,000 men, for 1 week and 500 animals for 1 day. Sheep 100; goats 100.
		66m. 6f.	
		8	THALLAVASAL 9 m. 2 f. Road fit for motors; b. (1,530). metalled. Country open and cultivated. The Vasis Fanadi river, which has to be crossed, has a bridge over it at the close of the 42nd mile from Salem. Route No 32 joins here. 3 m. Amrayagaram (1,240). 4½ m. Vasudivapur (650). Cross 2 streams, bridged. <i>Camping ground</i> .—16½ acres N. of village and 20 acres near. <i>Water</i> .—From the river, which has low banks and a heavy sand bed. Also tanks and wells, for 2,000 men and animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing 1 m. distant, for 100 animals. <i>Supplies</i> .—Grain locally for 100 men and 20 animals; for larger quantities, notice is required.
		76 m.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
COLLECTOR OF SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	9	ATUR.—10 m. 4 f. Road fit for motors, p. (6970). metallised; country mostly cultivated.
		86m 4f.	Headquarters of the sub-district. Routes Nos. 20 and 32 join here. Cross Vashishtenadi river, bridged to village. 2 m. Devingakendi (1,298). 3 m. Manivilunthan (2,108). 6 m. Kattakottai (2,697). <i>Camping ground</i> .—S. of village. <i>Water</i> .—Very good and plentiful, from the river, for 400 men and 100 animals. <i>Fuel</i> .—10 tons. <i>Fodder</i> .—100 acres, 2 m. distant, for 200 animals. <i>Supplies</i> .—Grain for 4,000 men and 200 animals for 15 days. Oxen 2,460; sheep 1,000; goats 1,000. Vegetables nil.
		10	PEDDANAYAKAM.—7 m. 5 f. Road POLIEM. metallised and fit for
		94m. 1f.	(4,110). motors; country high, open and cultivated, chiefly with dry grain. 2 m. Narasinguparam (2,337). 2½ m. Sakshmasudram (219). 2½ m. Ruchur (100). 3 m. Selliyampaliyam (209). 5 m. Kothambadi (39). Cross the Keripatti river (1½ m.), bridged. Lakshmasudram river (2½ m.), bridged. <i>Camping ground</i> .—Good and high, N. and S. of village. <i>Water</i> .—Good and plentiful, from the Vasistandi.

ROUTE NO. 19.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Fodder</i>.—Grazing nil. Grass for 100 animals obtainable with notice.</p> <p><i>Supplies</i>.—Grain with notice, for 500 men and 50 horses for 4 days.</p> <p>Oxen 1,485; sheep 600; goats 600.</p> <p>Vegetables nil.</p>
		11	<p>VALAPADY.—7 m. 2 f. Road metalled, fit for motors. <i>Vide</i> Route No. 12, stage No. 14. Country generally high, dry and cultivated. The river is on one or the other side of the road all the way.</p>
		101 m. 3 f.	<p>2 m. Puthrakavundampalingam. (368). 5 m. Krishnapuram (1,520). Cross the Kuda-vaiyer river (4½ m.), bridged.</p>
		12	<p>KARRIPPATTI.—8 m. 3 f. Excellent road, fit for motors. Country for a mile is open and cultivated, thence, to 6th mile, it is hilly and jungly, though only moderately so; thence it is still hilly, not cultivated. At 8½ m. cross stream, unbridged, fordable.</p>
		109 m. 6 f.	<p><i>Camping ground</i>.—E. and W. of village, sufficient for any force.</p> <p><i>Water</i>.—Good, from the Vellar, for 300 men and 200 animals.</p> <p><i>Fuel</i>.— } Nil. <i>Fodder</i>.— }</p> <p><i>Supplies</i>.—Nil locally, but obtainable with notice.</p>
		13	<p>SALEM.—8 m. 5 f. <i>Vide</i> Route No. 6, stage No. 24. Excellent road, fit for motors.</p>
		118 m. 3 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	14	OMALUR.—10 m. 3 f. Metalled road, fit for motors. Country open and cultivated.
		128 m. 6 f.	Route No. 28 crosses here. Cross Omalur E. River at 9 m. 6 f., bridged. <i>Camping ground</i> .—1 m. N. <i>Water</i> .—From a stream near and wells for 1,000 men and animals. <i>Fuel</i> .—Small quantity only. <i>Fodder</i> .—Grazing: 75 acres 1 m. S. W., for 200 animals. <i>Supplies</i> .—Grain for 500 men and 200 animals for 3 days. Oxen 15; sheep 200; goats 200. Vegetables 50 lbs.
		15	MECHERI.—9 m. 5 f. Road metalled, fit for motors; Cross Omalur W. river at 5 furlongs, bridged. Country open and cultivated.
		138 m. 3 f.	<i>Camping ground</i> .—16 acres N. of village; also to S.-W., but rather confined and stony. <i>Water</i> .—From stone tanks, for 500 men and 200 animals. <i>Fuel</i> .—Small quantity only. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 200 men and 100 animals for 2 days. Oxen 10; sheep and goats 100.
		16	SOLAPPADI.—9 m. 2 f. Metalled road, fit for motors. Country open and undulating for 5 miles, then hilly and jungly.
		147 m. 5 f.	The hill is 3 miles long, very steep and rocky.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>Route No. 27 crosses here. At $4\frac{1}{2}$ m. cross 1 stream, unbridged, fordable. <i>Camping-ground.</i>—Nil. <i>Water.</i>—Unlimited; from the river. <i>Fuel.</i>—From Forest Reserve. <i>Fodder.</i>—Grazing in Forest Reserve; also 3,000 acres close by, for 1,000 animals. <i>Supplies.</i>—Grain <i>nil.</i> Sheep 20; goats 20.</p>
		17	KAVERIPURAM.—7 m. 4 f. Road, for first (500). 3 miles, unfit for wheeled traffic; in bad repair. Country open and cultivated. Cross 7 <i>nalas</i> and the Cauvery river, unbridged. Ferry available.
		155 m. 1 f.	<p>$1\frac{3}{8}$ m. Govindapadi (150). $1\frac{7}{8}$ m. Gollapatti (170). $3\frac{1}{4}$ m. Sethukuli (190). <i>Camping-ground.</i>—4.20 acres, S. of village. <i>Water.</i>—Constant; from river. <i>Fuel.</i>—50 cartloads. <i>Fodder.</i>—50 acres grazing 1 m. distant, for 100 animals for 2 days. <i>Supplies.</i>—Grain for 100 men and animals for 1 day. Oxen 20; sheep 50. Vegetables <i>nil.</i></p>
		18	JATLAPATTI OR POTTAIYENPALAIYAM (500). 8 m. 4 f. Road unfit for wheeled traffic, track only.
		163 m. 5 f.	<p>Country hilly and jungly, then open and undulating for the last mile and cultivated at intervals. Cross the Palar river and 6 <i>nalas</i>, unbridged, fordable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		19	<p><i>Camping-ground.</i>—100×50 yards, south of village.</p> <p><i>Water.</i>—From the river, except during the hot season, when it dries up; ordinarily, unlimited supply.</p> <p><i>Fuel.</i>—50 cartloads.</p> <p><i>Supplies.</i>—Grain for 200 men and 50 animals for 1 day. Oxen 100, sheep 200, goats, and vegetables nil, grazing nil.</p>
		170 m. 7 f.	<p>NADUKKARIAL.—7 m. 2 f. Road unfit for wheeled traffic. Bridle path only. Country, jungle and forest.</p> <p>Cross 6 <i>nalas</i>, unbridged.</p> <p><i>Camping-ground.</i>—200' × 180' South, and 200' × 120' West of village.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Grazing.</i>—100 animals for 3 days, near Rest House.</p>
		20	<p>GERKIKANDI.—8 m. 4 f. Road unfit for wheeled traffic as before; Cross the</p>
		179 m. 3 f.	<p>Palar river, unbridged, 3 times.</p> <p><i>Camping-ground.</i>—30 acres N. of stage; and 20 acres additional.</p> <p><i>Fuel.</i>—From Forest Reserve.</p> <p><i>Supplies.</i>—Markellā village, 3 miles: oxen 10, goats and sheep. 20.</p> <p><i>Grazing.</i>—Forest Reserve, $\frac{1}{2}$ mile, 1,000 acres, for 5,000 animals.</p>

AUTHORITIES.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		21	RAMAPURAM.—9 m. 4 f. Country, jungle and (722). Reserved Forest. Gravelled road, fit for motors. In good repair. Cross many <i>nalas</i> , unbridged.
		188 m. 7 f.	<i>Camping-ground</i> .—20 acres, N. of village, and 20 acres additional. <i>Water</i> .—From wells; supply limited. <i>Fuel</i> .—Obtainable. <i>Supplies</i> .—Grain, 100 men and 20 animals, 1 day; oxen 10; sheep 30; goats 40. Vegetables <i>nil</i> . <i>Grazing</i> .—50 acres unreserved, 1 mile: Forest Reserve, 2 miles, 500 animals.
		22	HANUR.—9 m. 0 f. Road fit for motors. (2,395). Cross 3 streams, unbridged, fordable.
		197 m. 7 f.	<i>Camping-ground</i> .—30 acres E. of village. 130 acres extra. <i>Water</i> .—From a stream and wells, for 100 men and 100 animals. <i>Fuel</i> .—Plentiful, from Forest Reserve. <i>Supplies</i> .—Grain for 500 men and 100 animals for 2 days. Oxen 10; sheep 10; goats 500. Vegetables <i>nil</i> . 2 m. Menchapuram (223). 4 m. Karmparthoddi (200). 4½ m. Mipuram (1,474). <i>Grazing</i> .—500 acres 1 mile distant, for 100 animals; grass plentiful.
		23	CHANGANELUR.—7 m. 1 f. Metalled road, (2,104). fit for motors.
		205 m 0 f.	Country undulating and cultivated. <i>Camping-ground</i> .—30 acres S. of village. <i>Water</i> .—From wells, for 200 men and 200 animals.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT. COLLECTOR OF COIMBATORE, COIMBATORE.			<p><i>Fuel.</i>—Nil.</p> <p><i>Supplies.</i>—Grain (ragi only), for 200 men for 5 days. Oxen 15; sheep 20; goats <i>nil</i>.</p> <p><i>Vegetables</i> <i>nil</i>.</p> <p><i>Grazing.</i>—Nil.</p> <p>1½ m. Rudrachottedoddi (253). 5' m. Mangalam (1,622). 6 m. Kongarahalli and Kamagiri (1,712). Cross 1 stream, unbridged, fordable.</p>
		24	<p>KOLLEGAL.—7 m. 7 f. Road fit for motors, <i>b. p. t.</i> metalled. Country open and cultivated.</p> <p><i>Vide</i> Route No. 18, stage No. 14.</p> <p>1 m. Muduwamalli and Harubanupilliam (2,997 and 1,331). 3 m. Silahyanapuram (957). 5½ m. Cross a river, bridged.</p>
DEPUTY COMMISSIONER OF MYSORE DISTRICT. COLLECTOR OF MYSORE, MYSORE.		212 m. 7 f.	<p>TIRUMAKULDU NARSIPUR.—15 m. 6 f. <i>b. p. t.</i> (4,001). Gravelled road, unfit for motors, but for wheeled traffic. A small town at the confluence of the Cauvery and Kabin rivers, headquarters of the Narsipur Sub-District.</p> <p><i>Camping-ground.</i>—No good ground available.</p> <p><i>Water.</i>—From the river. Country cultivated. Cross the Hona Hote river, unbridged. Route No. 21 joins here.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Grazing.</i>—Nil.</p> <p><i>Supplies.</i>—Plentiful, on notice being given. Grain for 200 men and 100 animals for 2 days. Oxen 5; sheep 10; goats 10; country vegetables in small quantities only. 4 m. Mullur. 6 m. Kaliyur (1,394). 11 m. Nadapur (816).</p>
		25	
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		228 m. 5 f.	
GENERAL OFFICER COMMANDING, BANGALORE.			

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE.	GENERAL OFFICER COMMANDING, BANGALORE.		2 m. Sunamanti river, unbridged, ordinarily fordable, boats available if flooded.
		26	8 m. stream, unbridged, fordable.
		247 m. 5 f.	MYSORE.—19 m. 0 f. <i>Vide</i> Main Route No. VI Stage No. 11. Road unfit for motors, but fit for wheeled traffic. Cross the Kabini river, unbridged, 2 boats available. Country open and cultivated.
		27	2 m. Gargeswami. 9 m. Pura, 17 m. Alanahalli.
		256 m. 5 f.	VELVAL.—9 m. 0 f. Metalled road, fit for b.p. (1,432). motors. Route No. 26 leaves here.
			<i>Camping-ground</i> .—Good and capacious, 18.39 acres S. E. of village, and 5 acres extra.
			<i>Fuel</i> .—Nil.
		28	<i>Grazing</i> .—60.14 acres, 2 m. distant for 200 animals
		63 m. 5 f.	<i>Supplies</i> .—Grain for 500 men and 100 animals for 1 day. Oxen <i>nil</i> ; sheep 10; goats 5; vegetables <i>nil</i> .
			4 m. Enical (688). Country open and cultivated.
			BILIKERE.—7 m. 0 f. Metalled road, fit for motors.
			<i>Camping-ground</i> .—Good and extensive; 15.20 acres W. of village.
			Country high and dry and cultivated; <i>nalas</i> all bridged,

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	<p><i>Water.</i>—Scarce in hot season, when tanks dry up. Wells have to be sunk.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Grazing.</i>—2,000 acres, 3 miles distant for 2,500 animals.</p> <p><i>Supplies.</i>—Grain for 300 men and 100 animals for 3 months. Oxen 30; sheep 150; goats 200. Vegetables nil.</p> <p>Ordinary fever prevails between November and March.</p> <p>HUNSUR.—12 m. 4 f. Metalled road fit for b.p.l.(4,559). motors. Government Cattle Farm here.</p> <p>Hunsur is the headquarters of a sub-district: it has a 1st class bungalow.</p> <p>Route No. 26 joins here.</p> <p>$\frac{3}{4}$ m. Malnathpur (197). 8 m. Somanahalli (500). 12$\frac{1}{2}$ m. Lakkshman hirti river, bridged. First 5 miles jungle, then cultivated.</p> <p><i>Camping ground.</i>—17·25 acres S. W. of village.</p> <p><i>Water.</i>—Unlimited. New water works have been started and drinking water reservoirs provided; town supplied with pipe water.</p> <p><i>Fuel.</i>—Plenty, with notice.</p> <p><i>Grazing.</i>—1,600 acres 1 to 6 miles distant, for 1,000 cattle.</p> <p><i>Supplies.</i>—Grain for 300 men and 100 animals for 3 months. Oxen 50; sheep 100; goats 100; vegetables 1 maund daily.</p> <p>PERIYAPATNA.—12 m. 7f. Metalled road, b.p.l.(3,308). fit for motors. Road from Anishowhun branches off here to Peryapatam. To go to Hassan, good Local Fund road. Country generally</p>
		29
		276 m. 1 f.
		30
		289 m. 0 f.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		undulating with low jungle for 1st 5 m.; thence open and cultivated. 7m. Chitkunda (837). 9½m. Kamplapur (1,413). Cross a stream and Lakshmanthirti River, bridged. <i>Camping-ground</i> .—17·9 acres, E. of town, sloping towards road. <i>Water</i> .—From 4 tanks and 2 wells, supply plentiful. <i>Fuel</i> .—10 cartloads. <i>Grazing</i> .—For 2,000 head of cattle at 2 m. distance. <i>Supplies</i> .—Grain for 1,000 men and 100 animals for 15 days: Oxen <i>nil</i> ; sheep 100; goats 50; vegetables <i>nil</i> .
		31	MALDARI.—12 m. 1 f. Road fit for motors; Metalled. Cross the Cauvery river, bridged. Coorg boundary at mile 7.
		301 m. 1 f.	4½ m. Muttur (387). All <i>nalas</i> bridged. Country jungly. <i>Camping-ground</i> .—Available, if jungle is cleared. <i>Water</i> .—From a tank, but scarce and bad from February to June. There is 1 well and another under construction. <i>Supplies</i> .—Nil.
SUPT. OF COORG, MERCARA		32	SIDAPUR.—6 m. 7 f. Metalled road, fit for motors. Country practically all coffee estates. Cross 2 streams, bridged.
		303 m. 0 f.	<i>Camping-ground</i> .—3 acres S. W. of village. <i>Water</i> .—From wells and the Cauvery river 1½ miles away. For 100 men and 100 cattle. <i>Fuel</i> .—Small quantities obtainable.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
SUPERINTENDENT OF COORG, MERCARA.	GENERAL OFFICER COMMANDING, BANGALORE.	33	<p><i>Grazing.</i>—Nil.</p> <p><i>Supplies.</i>—Grain, small quantity: Oxen 10; sheep 5 (on Sundays only).</p>
		325 m. 4 f.	
		34	<p>MERCARA.—17 m. 4 f. Metalled road, fit for p. t. (5,000). Abbial Hill begins about the 10th mile and ends at the 13½ mile; ground confined all along. Road passes by coffee plantations from about 4th mile to 13½ mile. 1 m. Cauvery river, bridged. 3 m. stream, bridged. <i>Camping-ground.</i>—20 acres, on roadside, S. of the fort. <i>Water.</i>—Plentiful supply of water from perennial streams at about 10th and 11th miles. Also from 2 wells and 5 tanks, supply unlimited. <i>Fuel.</i>—Nil. <i>Grazing.</i>—100 acres, close by, for 100 animals. <i>Supplies.</i>—On 15 days' notice, grain, small quantity only. Oxen 50, sheep 200; goats 50; vegetables small quantity only.</p>
		331 m. 0 f.	<p>MADENAD.—5 m. 4 f. Metalled road, fit for (50). hill begins. Country jungly, sparsely cultivated. Cross 1 stream, bridged. <i>Camping-ground.</i>—Nil. <i>Water.</i>—Abundant and close at hand. <i>Fuel.</i>—Obtainable. <i>Grazing.</i>—1,000 acres, close to stage, for 250 animals. <i>Supplies.</i>—Nil.</p>

ROUTE NO. 19.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
SUPERINTENDENT OF COORG, MERCARA.	G. O. C., BANGALORE.	35	SAMPAJI.—14 m. 3 f. Metalled road, fit for motors. Cross 3 streams, bridged.
		345 m. 3 f.	Camping-ground on the hill where the bungalow is situated, very confined; other ground may be found when the rice fields are dry; this is a feverish spot; country hilly and wild, no intermediate ground for camp, but small patches here and there; soil laterite; the hill is 8 miles 6 furlongs in length, and has an average gradient of 1 in 37. Complete the descent of the hill at 7½ miles; Coorg boundary at 11¼ m. Ground confined all along, no camping-ground available; plentiful supply of water from perennial streams right through; a stiff march for troops travelling up the hill in the hot weather; and feverish from March to June. <i>Fuel</i> .—Nil. <i>Grazing</i> .—1,000 acres close by, for 300 animals. <i>Supplies</i> .—Except vegetables in small quantities, nil.
COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	36	SULLIA.—13 m. 2 f. Metalled road, fit for motors. Short ascents and descents,
		358 m. 5 f.	very steep in places; a wild hilly country. 5¼ m. Arantod (659). 7½ m. Kandalpari. 8½ m. Stetti (1,544). All <i>nalas</i> are bridged. <i>Camping-ground</i> .—30 acres S. W. of village; camping-ground, all but 7 acres, overgrown with jungle. <i>Water</i> .—Supply unlimited, from Magrupana stream. <i>Fuel</i> .—Obtainable. <i>Grazing</i> .—1½ m. distant, for 5,000 animals. <i>Supplies</i> .—Grain for 250 men and 100 animals for 1 week. Oxen 25, sheep nil, goats 35, vegetables nil.

ROUTE NO. 19.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALGOD.		37	<p>KHOW or MADNUR.—11 m. 0 f. Metalled road, fit for motors; a steep ascent and descent, gradient 1 in 15 at 7th m. Wild hilly country.</p> <p>6 m. Jalsur (1,204). Kanahamajlu. 9 m. Eoltige. All <i>nalas</i> are bridged.</p> <p><i>Camping-ground</i>.—About 2½ acres S. of village and 4 acres additional.</p> <p><i>Water</i>.—Plentiful and near for 5,000 men and 25,000 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Grazing</i>.—20 acres close by.</p> <p><i>Supplies</i>.—Grain for 100 men and 100 animals for 1 week. Oxen 20; sheep <i>nil</i>; goats 50; vegetables <i>nil</i>.</p>
		369 m. 5 f.	
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		38	<p>PUTTUR.—10 m. 0 f. Road fit for motors. <i>b.p.t.</i> (4,697). Country as before, with dense jungle.</p> <p>2½ m. Anijadka (805). 4½ m. Ulamagru (1,180). 6½ m. Arijapur (1,712). All <i>nalas</i> are bridged.</p> <p><i>Camping-ground</i>.—On left side of road, 3 acres S. W. of village and 7 acres on Buramali hill. In the rains, the only camping-ground is that formerly used as a parade ground by the detachment then stationed there. No intermediate place for camping.</p> <p><i>Water</i>.—Good. Plentiful supply from 3 wells and 1 tank.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Grazing</i>.—20 acres 1½ m. distant, for 2,000 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 animals for 1 month: Oxen 50; sheep <i>nil</i>; goats 100; vegetables <i>nil</i>.</p>
		379 m. 5 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Mil- itary.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	39	PANMANGALORE.—15 m. 0 f. A small town. <i>b. p.</i> (2,633). Metalled road, fit for motors. Country
		394 m. 5 f.	hilly; cultivated in valleys. The river is navigable from here to Mangalore by large canoes, but only for some months, as great difficulty is experienced from April to September. Route No. 39 joins here. 2 m. Padnur (1,072). 4 m. Kabaka (1,392). 5 m. Iokidu (1,211). 7 m. Mudnur (699). 9 m. Main (850). 12 m. Baltita (1,900). 14 m. Goltamajal (1,260). All <i>nalas</i> are bridged. <i>Camping-ground</i> .—Good ground. 34 acres, W. of bazar. <i>Water</i> .—Supply plentiful, from a well and a <i>nala</i> . <i>Fuel</i> .—50 cartloads. <i>Grazing</i> .—20 acres 2 m. distant, for 2,000 ani- mals. <i>Supplies</i> .—Grain for 5,000 men for 2 months and 1,000 animals for 1 month. Oxen 500: sheep <i>nil</i> : goats 100: vegetables large quantities (February to May).
		40	FARANGIPET.—7 m. 0 f. Metalled road, fit <i>b. p.</i> (1,907). for motors. Cross the Netravati river, in boats; bridge being made. Boats are always available for crossing the river, which is 500 yards wide and is fordable from March to May, the water then being about 1½ feet deep. A fair-sized village. 1 m. Muda (2,830). 4 m. Kalliga (1,304).
		401 m. 5 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		6 m. Tumbe (1032). Streams and <i>nalas</i> are bridged. <i>Camping-ground</i> .—In fields only. 70 acres W. of bazaar and 3.50 acres near by. <i>Water</i> .—From river and wells, for 2,000 men and 2,000 animals. <i>Fuel</i> .—Nil. <i>Grazing</i> .—20 acres close by, for 300 animals. <i>Supplies</i> .—Grain for 500 men and 500 animals for 1 month. Oxen 25, sheep 1, goats 111, vegetables for 200 men.
		41	MANGALORE.—9 m. 0 f. Metalled road, fit <i>b.p.t.r.</i> for motors. <i>Vide</i> route No. 2. Stage
		410 m. 5 f.	49. All streams and <i>nalas</i> are bridged. The country is a succession of rocky ridges divided by deep hollows. Cultivated in valleys.

No. 19 (1).

FROM VIRAPERUMANALLUR TO PERIASÉVALAI.

Epitome.—Road gravelled.*Direction*.—North-West.

COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G.O.C., MADRAS DISTRICT, WELL- INGTON.		VIRAPERUMAN.—Road metalled through- out; a small village; <i>p.</i> supplies and water abundant; <i>camping-ground</i> .
		1	PERIASÉVALAI.—8 m. 5 f. Country open; rich soil, wet and dry.
		8 m. 5 f.	

No. 19 (2).

FROM TYAGADRUG TO TIRUVANNAMALAI.

Epitome.—Cross the Penner river, unbridged; otherwise road bridged throughout, but only gravelled from Manalurpet, to which place traffic in the rains is very difficult.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19 (2).	
Civil.	Military.			
COLLECTOR OF SOUTH ARCOT, CUDDALORE. C. OF NORTH ARCOT, VELLORE. G. O. C. MADRAS DISTRICT, WELLINGTON.			TYAGADRUG.— <i>b.p.</i>	
		1	MANALURPET.—18 m. 2 f.	
		18 m. 2 f.	<i>p.</i>	
		2	TIRUVANNAMALAI—16 m. 3 f. (On	
		34 m. 5 f.	<i>b.p.t.</i> Route No. 31.)	

No. 19 (3).

FROM KALLAKURCHI TO KACHARAYAPALAYAM.

Epitome.—Road partially gravelled, practicable at all times.

Direction.—West by North.

COLLECTOR OF SOUTH ARCOT, CUDDALORE. G. O. C. MADRAS DISTRICT, WELLINGTON.		KALLAKURCHI.— <i>b. p.</i>	
	1	KACHARAYA.PALAYAM.—8 m. 0 f.	
	8.m 0f.	<i>p.</i>	

No. 19 (4).

FROM ETTAPUR TO BELUR.

Epitome.—Cross the Vasistanadi river, unbridged. Road gravelled and practicable during the hot season.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19 (4).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.		ETTAPUR.—
		1	BELUR.—5 m 1 f.
		5m. 1f.	

No. 19 (5).

FROM VALAPADY TO TUMBAL.

Epitome.—Cross the Vellalapatty and Yedapady rivers, unbridged. Road partially metalled, but not in good order.

Direction.—North-East.

COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.		VALAPADY.— <i>b. p.</i>
		1	TUMBAL.—13 m. 0 f.
		13m. 0f.	

No. 19 (6).

FROM YELVAL TO HASSAN.

Epitome.—Cross the Lakshmantirtha river, unbridged; a made road, practicable at all seasons, but traffic is liable to interruption from flood on the river.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19 (6).
Civil.	Military.		
D. C. OF MYSORE DISTRICT.	G. O. C., BANGALORE.		YELVAL.— <i>b. p.</i>
		1	HASSAN.—58 m. 2 f. <i>Vide</i> Route No. 39, <i>b. p. t.</i> stage 10.
D. C. OF HASSAN HASSAN.		58m. 2f.	

No. 19 (7).

FROM MERCARA TO FRASERPET.

Epitome.—Road metalled and in excellent order.

Direction.—East.

SUPERINTENDENT OF COORG, MERCARA.	G. O. C., BANGALORE.		MERCARA.— <i>p. t.</i>
		1	SONTICOPPA.—9 m. 2 f.
		9m. 2f.	
		2	FRASERPET.—10 m. 2 f. <i>p. t.</i>
		19m. 4f.	

No. 19 (8).

FROM SUBRAHMANYA TO KUNDAMAR.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 19 (8).
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C., MADRAS DISTRICT WELLINGTON.	—	SUBRAHMANYA.— <i>p.</i>
		1	PUNJA.—10 <i>m. 2 f.</i>
		10 <i>m. 2 f.</i>	
		2	KUNDAMAR.—14 <i>m. 0 f.</i>
		24 <i>m. 2 f.</i>	

No. 19 (9).

FROM BELLARE TO PUTTUR.

Direction.—North.

COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		BELLARE.— <i>p.</i>
		16 <i>m. 2 f.</i>	PUTTUR.—16 <i>m. 2 f.</i> <i>b. p. l.</i>

ROUTE NO. 20.

FROM POINT CALIMERE TO ATUR.

Authority and date.—General Officer Commanding, 9th Division, June 1910.

Epitome.—Direction north-west. The road up to within a few miles of Tanjore is bridged, one river excepted, and, though not metalled, is passable at all seasons, being composed of sand and clay. The first two stages cross a sandy tract and are very heavy. Thence to Tiruvadi it is metalled and bridged, practicable at all seasons. The remainder of the road is unbridged, but is either gravelled or metalled, except for about 30 miles. Total distance 144 miles, 14 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	1	POINT CALIMERE.—A small village. <i>p.</i> (1,226).
		7m. 2f.	<p><i>Camping-ground.</i>—Close, near the sea, S.-E. of village.</p> <p><i>Water.</i>—From 3 tanks and 2 wells, for 1,500 men and 500 animals.</p> <p><i>Fuel.</i>—Cut: 200 cartloads.</p> <p><i>Fodder.</i>—500 acres grazing $\frac{1}{2}$ mile from village.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 500 animals for 1 day; notice required. Oxen 50, sheep 100, goats 200, vegetables 50 maunds.</p> <p>Notice is required to collect these stores.</p> <p>VEDARANIAM.—7m. 2f. Road is a sandy track, fit for bullock carts only. Country at first thick jungle, then open. 5 m. Acootiyampalli (2821).</p> <p><i>Camping-ground.</i>—$\frac{1}{2}$ sq. m., $\frac{1}{4}$ m. S.</p> <p><i>Water.</i>—2 tanks and 2 wells, for 500 men and 300 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	2	<p><i>Fuel</i>.—Cut, 500 cartloads.</p> <p><i>Grazing</i>.—10 acres, $\frac{1}{2}$ m. from village.</p> <p><i>Supplies</i>.—Grain for 500 men and 500 animals for 1 day. Oxen 50, sheep 500, goats 700; vegetables in small quantities.</p> <p>KARIAYAPATNAM.—10m. 5f. Road and (2889). country as before.</p>
		17m. 7f.	<p>2 m. Thetagudi (3,372). 4 m. Kurruppanpalam (2,356). 5 m. <i>nala</i>, 100 feet, fordable. 6 m. Karavapalam (1,743). 8 m. village (2,160). <i>Camping-ground</i>.—2 sq. m. S. of village.</p> <p><i>Water</i>.—From 5 tanks and 6 wells, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—100 cartloads, if notice given.</p> <p><i>Fodder</i>.—25 acres grazing $\frac{1}{4}$ m. away.</p> <p><i>Supplies</i>.—Grain for 500 men and 500 animals for 10 days. Oxen 50, sheep 500, goats 700; vegetables 10 maunds.</p>
		3	<p>TIRUTURAIPUNDI.—9m. 1f. Road as before; country wooded and cultivated.</p> <p><i>Vide</i> Route No. 5, Stage No. 23.</p> <p>$\frac{1}{2}$ m. Vadamagai (1,019). 3 m. Malamarador (661). 3 m. <i>nala</i>, 30', brick bridge. 5 m. Kuttimoda (854).</p>
		27m. 0f.	
		4	<p>KOTTUR.—8 m. 6 f. A small village. Mud road, good repair, unfit for motors; a grove and open ground on right of the road.</p> <p>4$\frac{1}{2}$ m. cross the M. lliar and 7 m. Adappar rivers, bridged. Country cultivated.</p> <p>$\frac{1}{2}$ m. Sumgabundhi (2120). 2 m. Devammapuram (1305). 3 m. Kotamasulam (1,887). 4 m. Mettupalayam (1,299). 4$\frac{1}{2}$ m. Kill kudi (1,868).</p>
		35m. 6f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>5 m. Ayanallur (1,210). 7 m. village (1,127). <i>Camping-ground</i>.—11 acres, S. E. of village. <i>Water</i>.—Tank and channel water, for 500 men and 200 animals. <i>Fuel</i>.—Obtainable <i>Fodder</i>.—Grazing for 400 animals 1 m. from village. <i>Supplies</i>.—Grain for 50 men for 10 days and 100 animals for 7 days, with notice. Oxen 300, sheep 500; goats 500. Vegetables in very small quantities.</p>
		5	<p>MANNARGUDI.—10 m. 1 f. <i>vide</i> Route No. b. p. t. 7, Stage No. 16. Road and country as before. Cross Mulliyar and Korrayar rivers, bridged. 3 m. Mulliyar R., 100 feet, fordable, brick bridge. 3 m. Adichagpuram (1,122). 5 m. village (1,483). 5½ m. Kandamansalam (984). 6 m. Korayar river, 250', brick bridge.</p>
		45 m. 7f.	
		6	<p>VADUVUR.—9 m. 7 f. Road and country as before. Small village: a few small shops. Country open and flat. 3½ m. Surumangalam (1,732). 6 m. Korakkottair (689). 7 m. Vaduvar Thimpattrhy (2,655). Cross canal at 2¾, 4 and 7 m., all brick bridges. <i>Camping-ground</i>.—10 acres, E. of village. <i>Water</i>.—Tank and 2 wells, for 1,000 men and 5,000 animals. <i>Fuel</i>.—Obtainable.</p>
		55 m. 6f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20.
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain <i>nil</i> : oxen 1,000; sheep 500; goats 500; vegetables 1 cartload.
		7	TANJORE.—13 m. 0 f. <i>Vide</i> Route No. 8, <i>b. p. t. r.</i> Stage No. 5.
		68 m. 6f.	Road gravelled up to 4 m., thence unmade. Unfit for motors in rains, always fit for wheeled transport. Country as before. 2 m. Neinasal (?). 3 m. Murtiammapuram (—). 5 m. Raghavmkalpuram. 7 m. Vandayaviapper. 9 m. Katur. 11 m. Kilavastaachandy. Cross the Vari stream at 10, 11½ and 12 m., all bridged.
		8	TIRUVADI.—7 m. 0 f. Road gravelled, fit for <i>b. p. t.</i> motors.
		75 m. 6f.	(7,400). Country as before. A small and flourishing town. 1½ m. Vatavar stream, 20 yds., bridged. 3 m. Veenar stream. 30 yds., bridged. 4 m. Rathanoram (600); cross Vettar stream, 30 yds., bridged. 6 m. Kandiyur (1,500); cross Kodamanthair stream, 40 yds., bridged. 7 m. Cauvery river, 70 yds., bridged. <i>Camping-ground</i> .—Very confined. <i>Water</i> .—From river to the S. and 3 wells, during rains, sufficient for men and animals of 2 Infantry Brigades. <i>Fuel</i> .—Cut; small quantities stacked. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for men and animals of 2 Infantry Brigades for a fortnight. Oxen 250; sheep 100; goats 250. Vegetables <i>nil</i> .

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		9	KILAPALUVUR.—12 m. 4 f. <i>Vide</i> Route p. No. 9. Stage No. 30. Road as before but not fit for motors. Country as before. Cross the Coleroon river, unbridged; $\frac{1}{2}$ m. wide at $3\frac{1}{4}$ m., fordable, except in rains. 8 boats for 20 men each available. 3 m. Volangudi (—). 4 m. Tirumanur (1,916). $5\frac{1}{2}$ m. <i>nalz</i> , 200', crossed by road dam. 8 m. Sathamangalam (1,125).
		88m. 2f.	
		10	ARIYALUR.—6 m. A town. Metalled road p. l. (7904). as before. $3\frac{1}{2}$ m. cross the Marudaiyar river, unbridged. 2 channels 200' and 200 yards wide, impassable in flood. No boats available. Country as before. $4\frac{1}{2}$ m. Thravatakulam (237). <i>Camping-ground</i> .—Nil. <i>Water</i> .—From 3 tanks, for 1,000 men and 3,000 animals. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Obtainable with notice. <i>Supplies</i> .—On weekly market day (Sunday) as follows :— Grain for any number of men and animals for 7 days. Oxen 2,000; sheep 3,000; goats 3,000. Vegetables as required.
		94m. 2f.	
		11	NEAR TURAIMANGALAM.—17 m. 6 f. <i>Vide</i> b. (1,460). Main Route No. 5, Stage No. 19.
		112 m.	Road and country as before. $4\frac{1}{2}$ m. Mathur (1,360). 8 m. Kunnam (1,324). 11 m. <i>nalz</i> , 200', unbridged, fordable.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20.
Civil.	Military.		
COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	12	UDUMBIYAM.—16 m. Road as before. Country as before, but rocky here and there.
		128 m.	Small village. 1 m. Perambalur (4,900). 6 m. Esanai (2,029). 9 m. Veppanthatri (6,330). 12 m. Vengalam (3,285). 13 m. Venganore (2,030). 4½ m. Koneri river. 10½ m. Veppanthatri river; 12½ m. Kallar river, all unbridged, about 50 yds. wide. Difficult but fordable, except in rains. No boats available. <i>Camping-ground.</i> —15 acres, N. of village. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Unlimited grazing, 1½ m. away. <i>Supplies.</i> —Abundant grain at 15 days' notice. Oxen and sheep <i>nil</i> ; goats and vegetables are obtainable.
13		NADUVALUR.—9 m. Road fit for wheeled transport. There is a grove near the tank and N. of village which may be used as a camping-ground. <i>Water.</i> —5 streams and 4 wells; 200 men and 100 animals. <i>Fuel.</i> —Obtainable from Reserve 6 m. distant. <i>Grazing.</i> —100 acres, 2 m. distant, 500 animals. <i>Supplies.</i> —Grain for 400 men and 200 animals for 10 days; more with notice. Oxen 134; sheep 1,600; goats 1,600. Vegetables <i>nil</i> .	
137 m.			
14		ATUR.—7 m. Road fit for motors. <i>Vide</i> Route No. 19, Stage No. 9.	
COLLECTOR OF SALEM, SALEM.		144 m.	

No. 20 (1).

FROM VEDARANIAM TO NEGAPATAM.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20 (1).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. G. O. C., MADRAS DISTRICT, WELLINGTON.			VEDARANIAM.— <i>Vide</i> Route No. 20, Stage <i>p. l.</i> No. 1.
		1	KALLIMODU—8 m. 2 f. A small village; <i>b.</i> camping-ground for two regiments south- west of the place; sea 2 miles distant, on the east; good water from a tank at a dis- tance of $1\frac{1}{2}$ miles; Government rest-house; no supplies; soil black and swampy.
		8m. 2f.	
		2	TIRUPUNDI.—14 m. 2 f. A small place; some <i>p.</i> shops; camping- ground for two regi- ments $\frac{1}{4}$ mile south; good water from wells and tanks. Cross the Adapar River, unbridged, by a ferry.
		22m. 4f.	
		3	NEGAPATAM.—10 m. 2 f. <i>Vide</i> Route No. 5, <i>b. p. l. r.</i> stage No. 25. At $3\frac{1}{4}$ miles pass Val- angani, where Route No. 5 is joined.
		32m. 6f.	

No. 20 (2).

FROM VEDARANIAM TO TANJORE.

Unmetalled (except latter portion), but bridged and practicable at all seasons.

Direction.—West-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20 (2).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		VEDARANIAM.— <i>Vide</i> Route No. 20, Stage No. 1. <i>p. t.</i>
		1	VAIMODU.—15 <i>m.</i> A small village; no supplies; good water from tank and wells; camping-ground for a regiment west of village, Country a salt swamp. Cross the Valavanar, unbridged.
		15 <i>m.</i>	
		2	MUTUPET.—Cross two streams, unbridged. <i>b. p. t.</i>
		3	PATUKOTA.—12 <i>m.</i> Cross the Koriyar, bridged. <i>b. p. t. r.</i>
		4	MUTHAMALUR.—15 <i>m.</i>
		5	TANJORE.—14 <i>m.</i> <i>Vide</i> Route No 8, Stage No. 5. <i>b. p. t. r.</i> Road metalled.

No. 20 (3).

FROM VIRAGANUR TO THALLAVASAL.

Epitome.—Wholly gravelled and unbridged ; practicable at all seasons ; the several streams which cross the road run dry immediately after the rains.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 20 (3).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		VIRAGANUR. <i>p.</i>
		1	THALLAVASAL.—8 m. 0 f.
		8 m. 0 f	<i>b.</i>

No. 20 (4).

FROM GANGAVALLI TO MANJANI.

Wholly gravelled and unbridged, but practicable at all seasons.

Direction.—North-East.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		GANGAVALLI. <i>p.</i>
		1	MANJANI.—3 m. 6f.
		3 m. 6f.	

ROUTE NO. 21.

FROM POLLACHI TO NARSIPUR.

Authority and date.—General Officer Commanding 9th Division, June 1910.

Epitome.—Direction north. As far as Gadalur, the road is metalled and bridged; from thence to the foot of the hill, there is merely a fair-weather cart track; the hill itself, which begins two miles beyond Gazelhathi, is $2\frac{1}{2}$ miles long; it is now almost abandoned and is practicable for pack animals and foot passengers only; above the hill to Hardanhalli, where Route No. 15 is joined, there is merely a rough cross country track. Thence to Chamrajnagar and Narsipur, the road is partly metalled and unbridged. Total distance 119 m. $3\frac{1}{2}$ f. 11 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 21.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		POLLACHI. <i> Vide </i> Route No 11, Stage No. 16 <i> b. p. t.</i>
		1	KENATHUKADAVU 11 m. 4 f. Metal-
		11m. 4f.	CHATTRAM. led road, fit for (700). motors. Large village. Country open and cultivated. 3 m Achipalli (406). $4\frac{1}{2}$ m. Nanjaigoundu- upudur (300). 6 m. Kalyanampudur (600). 9 m. Thamaraikulam (150). 10 m. Sun- garampalayam (972). All <i>nalas</i> are bridged. <i>Camping ground.</i> —15 acres, W. of village. <i>Water.</i> —From 5 wells, for 100 men and 50 ani- mals. <i>Fuel.</i> —Obtainable. <i>Grazing.</i> —Nil. <i>Supplies.</i> —(Sunday only) grain for 1,000 men and 100 animals for 1 week. Oxen <i>nil</i> , sheep 50, goats 100. Vegetables, country only.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 21.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	2	COIMBATORE.—14 m. 0 f. Metalled road, <i>b. p. t. r.</i> fit for motors. <i>Vide</i> Route No. 13, stage No. 10.
		25 m. 4 f.	4½ m. Oltakal, Mandapam (2,000). 6 m. Malamachampatti (800). 10½ m. Kumshi. (4,000). Cross 3 streams, bridged. Country open and cultivated.
		3	GUDALUR.—10 m. 7½ f. Metalled road, fit for <i>b. p.</i> (2,476) motors. Moderate- sized village. Coun- try as before.
		36 m. 3½ f.	7½ m. Vada Madura (958). All large <i>nalas</i> are bridged. <i>Camping ground.</i> —On each side of <i>nala</i> , 2·7 acres, E. of village and 10 acres extra. <i>Water.</i> —From a <i>nala</i> , at all seasons, and from the rest house well. <i>Fuel.</i> —Scanty. <i>Grazing.</i> —Nil. <i>Supplies.</i> —By notice, from Coimbatore: local. Goats 200, vegetables 50 bags of brinjals, No- vember to January only.
		4	SIRUMUGAL.—13 m. 4 f. Road fair, though <i>b. p.</i> (1,020) stony in places, fit for country carts only. A moderate sized village. Route No. 14 is crossed in this stage. Kamarpalayam (500). Shottipalayam (750). Elavampalayam (750). Sirjomugipudur (700). Distances not given. Cross 2 <i>nalas</i> , bridged, and 2 unbridged, fordable.
		49 m. 7½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 21.
Civil.	Mil - tary.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			<p><i>Camping ground.</i>—1·14 acres, and 100 acres extra on W. of village, on right bank of river.</p> <p><i>Water.</i>—From Bhavani River, supply unlimited.</p> <p><i>Fuel.</i>—From Forest Reserve, 4 miles away.</p> <p><i>Grazing.</i>—Plentiful.</p> <p><i>Supplies.</i>—Grain : for 500 men and 200 animals for 1 month. Oxen 100, sheep 500, goats 500, vegetables 20 cart loads of brinjals. Supplies can be had from Mettopalayan, 6 miles off.</p>
		5	<p>DENKANKOTAI OR —9 m. 0 f. Road, DENAICKENKOTAI. 1st 7 m. only fit for motors in this stage, thence footpath.</p> <p>A village entirely deserted : country jungly ; after 7 m. cultivated.</p> <p><i>Camping ground.</i>—On either bank of the river, along which the road runs all the way.</p> <p><i>Water.</i>—From the river, which is 100 yards wide, with a sandy bed where crossed : supply unlimited. The banks are high and steep, boats requisite after rain.</p> <p><i>Fuel.</i>—From the forest reserve.</p> <p><i>Grazing.</i>—In forest reserve close by.</p> <p><i>Supplies.</i>—Nil.</p> <p>Cross 1 stream, bridged, and 1 unbridged, fordable.</p> <p>Cross the Bhavani river, unbridged.</p>
		58 m. 7½ f.	
		6	
		68 m. 7½ f.	<p>GAZELHATL.—10 m. 0 f. Road unfit for motors and wheeled traffic.</p> <p>The river where crossed, is 40 yards wide, bed sandy, banks low, boats requisite after much rain.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 21.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			<p>Cross the Mayar river and some <i>nālas</i>, unbridged. 1st 3 m. cultivated. $1\frac{1}{2}$ m. Pattaramangalam (300). $3\frac{1}{4}$ m. Poerek-davu (500). A small village and ruined fort on the left bank of the Mayar river. <i>Camping ground</i>.—2 acres, in forest reserve S.-E. of rest house, also at the foot of the hill, which is thickly overgrown. <i>Water</i>.—From Mayar river, at all seasons. <i>Fuel and grazing</i>.—In forest reserve. <i>Supplies</i>.—Nil.</p>
		7	<p>TALLAMALLAI.—6 m. 0 f. Road unfit for wheeled transport. (200). Country jungly, rocky and wooded. Cross 1 stream, fordable. Hill stony and steep, mean gradient 1 in 8, maximum 1 in 3; ascend Gazelhati hill. <i>Camping ground</i>.—S. of village, 17.98 acres. <i>Water</i>.—From a tank and wells, for 200 men and 300 animals. <i>Fuel</i>.— <i>Grazing</i>.— } Plentiful, from forest reserve, 4 m. distant. <i>Supplies</i>.—Grain nil, oxen 100, sheep 20.</p>
		74 m. $7\frac{1}{2}$ f.	
		8	<p>CHIKKA GAZENUR —12 m. 5 f. Road unfit for wheeled traffic. Country hilly and wild, hill stony but not steep. $1\frac{1}{2}$ m. Saragoundenhalli (80). Descend a hill. <i>Camping ground</i>.—8 acres, N. of village. <i>Water</i>.—From the Tallawari <i>nala</i>; deficient in hot weather. <i>Nala</i> often unfordable in rains. <i>Fuel</i>.—Obtainable.</p>
		87 m. $4\frac{1}{2}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 21.	
Civil.	Military.			
COLLECTOR OF COIMBATORE, COIMBATORE			<p><i>Grazing.</i>—Close by, for 200 cattle. <i>Supplies.</i>—Grain <i>nil</i>, oxen 44, sheep 106, goats 527, vegetables <i>nil</i>.</p>	
G. O. C. MADRAS DISTRICT, WELLINGTON.		9		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	G. O. C. BANGALORE.	89 m. 3½ f.	<p>ATTIGULIPARA.—1 m. 7 f. Road unfit for wheeled traffic. <i>Vide</i> Route No. 15, Stage No. 12. Cross Tallawari <i>nalas</i>, unbridged. Country as before.</p>	
		10	<p>CHAMARAJNAGAR.—9 m. 0 f. Metalled road, fit for motors. <i>Vide</i> Route No. 15, Stage No. 13. 4 m. Arkansettipur (324). 5½ m. Haradhanalli (2,283) 1½ m. cross Chickhole river, bridged. Country open and cultivated.</p>	
		98 m. 3½ f.		
		11	<p>TIRUMAKULDUNARSIPUR.—21 m. 0 f. Road partly metalled and partly gravelled, not fit for motors. <i>Vide</i> Route No. 19, Stage 25. Cross several large drainages, unbridged. 5 m. Mangla (3,205). 8½ m. Marahalli (1,005). 15 Mugur (4,112). 20½ Algud (5598). Country as before. Cross 1 stream, bridged, and 5 unbridged, fordable.</p>	
		119 m. 3½ f.		

ROUTE No. 21 (1).

FROM GUDALUR (COIMBATORE DISTRICT) TO OOTACAMUND BY METTUPALAIYAM AND THE KOTAGIRI HILL.

From Mettupalaiyam to the foot of the hill is a distance of 3 miles; the hill is 18 miles in length, with a rising gradient of 1 in 17 throughout; it is metalled, and is nowhere less than 8 feet wide, and is practicable for carts, baggage and animals; the total rise is 5,590 feet. From Kotagiri (which is 6,903 feet above the sea) to Ootacamund, there is a metalled cart road from 10 to 12 feet wide, open to wheel traffic throughout the year.

Direction.—North-West, West.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 21 (1).
Civil.	Military.		
COLLECTOR OF COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	1	GUDALUR.— <i>Vide</i> Route No. 21, Stage No. 3. <i>b. p.</i>
		11 m. 0 f.	METTUPALAIYAM.—11 m. 0 f. <i>Vide</i> Route <i>b. p. t. r.</i> No. 14, Stage No. 20.
COLLECTOR OF NILGIRIS, OOTACAMUND.	G. O. C. MADRAS DISTRICT, WELLINGTON.	2	KOTAGIRI.—20 m. 7½ f. The new hill road <i>b. p. t.</i> turns off to the right at the Bhavani bridge in Mettupalaiyam, and the hill begins at the 3rd mile. The distance is measured to the Public Works Department Bungalow in the centre of the bazaar. Ascend the Kotagiri hill.
		31 m. 7½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 21 (1).
Civil.	Military.		
COLLECTOR OF NILGIRIS, OOTACA- MUND.	G. O. C. MADRAS DISTRICT, WELLINGTON.	3	OOTACAMUND.—18 m. 0 f. <i>Vide</i> Main Route <i>p. t. r.</i> No. VI, Stage No. 1. (St. Stephen's Church.)
		49 m.	
		7½ f.	

No. 21 (2).

FROM DENKANKOTAI TO SATYAMANGALAM.

Epitome.—A fair-weather track only. Cross the Bhavani river, unbridged. The river near Kotamangalam is seldom fordable, crossing by boats is difficult.

Direction.—East-North-East.

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		DENKANKOTAI or DENAICKENKOTAL.
		1	KOTAMANGALAM.—4 m. 6 f.
		4 m. 6 f.	
		2	SATYAMANGALAM.—8 m. of.
		12 m. 6 f.	

No. 21 (3).

FROM DENKANKOTAI TO BENNARI CHATTRAM.

Epitome.—A fair-weather track only. Cross the Bhavani River, unbridged, seldom fordable, and crossing by boats difficult.

Direction.—North-East.

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		DENKANKOTAI or DANAICKENKOTAL.
		1	BENNARI CHATTRAM.—10 m. 0 f. <i>b.</i>
		10 m. 0 f.	

Route No. 22.

FROM CHOWGHAT TO TIPAKADU.

Authority and date.—General Officer Commanding, 9th Division, June 1910.

Epitome.—Direction—North-East. Road metalled and bridged except over Oruvampuram River, practicable at all seasons; no ferry on the river, but floods do not last long. The Karkur Hill is 11 miles 3 furlongs in length with a maximum gradient of 1 in 17 and a mean of 1 in 19. From the foot of the hill to Tipakadu, the country traversed is almost entirely covered with heavy jungle; fever is constant throughout the year on this route and troops should not march by it, except on an emergency. Total distance 102½ miles, 11 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 22.
Civil.	Military.		
BRITISH RESIDENT, COCHIN, TRIVANDRUM.	COLLECTOR OF MALABAR, CALCUTTA.	1	CHOWGHAT.—Road unfit for wheeled traffic. <i>b. p. t.</i> About 50 boats available, if Chitways river is in flood. <i>Vide</i> Route No. 2, stage No. 26.
			KANNAKOLAM.—6 m. 0 f. Metalled and <i>b. p.</i> (8,336). gravelled road, fit for motors.
	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	6m. 0f.	A large village. Country open and cultivated. <i>Camping grounds.</i> —8 acres, E. of town. <i>Water.</i> —From 2 tanks and wells, for 500 men and 100 animals. <i>Fuel.</i> —150 tons. <i>Grazing.</i> —25 acres ½ m. distant. <i>Supplies.</i> —Grain for 300 men and 100 animals for 2 days, oxen and sheep <i>nil</i> , goats 75, vegetables for 50 men.
		2	Out, S. C. 4 m. Arthat (2,500).
		17m. 1f.	TIRTALLA.—11 m. 1 f. Metalled and gravelled road, fit for motors. (1842). Route No. 29 joins here. 6 m. Chalisaeri (914). 7 m. Koothonao (250).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 22.
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>9 m. Nanthusarkode (419). 10 m. Kodanao (795). 11 m. Morhathur (1,265). Country as before. 6 m. cross one stream, bridged. <i>Camping ground</i>.—1½ acres, N. W. of village. <i>Water</i>.—From stream and wells, for 1,000 men and 1,000 animals. <i>Fuel</i>.— } <i>Nil</i>. <i>Grazing</i>.— } <i>Supplies</i>.—Grain, rice up to 20 bags: oxen sheep, goats and vegetables not available, except with previous notice.</p>
		3	<p>PATAMBI RAIL- 3 m. Of. Metalled road, fit for motors. WAY STATION. <i>p.</i>(2,227). 2 m. Bharatu river; if in flood, is crossed by ferry (2 boats). 1 m. Berumadujur (?). Country as before. Route No. 29 joins here. A small town. <i>Camping ground</i>.—Open ground close by available. <i>Water</i>.—From wells, for 500 men and 500 animals. <i>Fuel</i>.—2,000 lbs. with notice. <i>Grazing</i>.—100 acres, ½ m. distant, for 500 animals. <i>Supplies</i>.—Grain for 1,000 men and 1,000 animals for 1 week: oxen 50, sheep <i>nil</i>, goats 100, vegetables 500 lbs.</p>
		35m. 1f.	<p>4 ANGADIPURAM.—15 m. 0f. Road fit for motors. Country as before. <i>Vide</i> Route No. 11, Stage No. 22.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO 22.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.		GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	Cross the Palanthol, 2 boats. Country as before. 3 m. Amayier: 5 m. Pulasseri: 7 m. Vilayur: 8 m. Plamanthol: 10 m. Avinhikad (287): 11 m. Kighunijathol (792): 12 m. Cherukara (318): 13 m. Honnapalli (956): 15 m. Perintalmanna (3,733).
			5 PANDIKKAD.—9 m. 4 f. Gravelled road, p. (2,485). for motors.
		44 m. 5 f.	Cross the Orampuram river, unbridged, boats available in floods. 8 m. Vattikatum (3,712). Country partly cultivated and partly jungly. <i>Camping-ground.</i> —Nil. <i>Water.</i> —From rivers and wells for 500 men and 500 animals. <i>Fuel.</i> —Scarce. <i>Grazing.</i> —20 acres, within 2 miles. <i>Supplies.</i> —Grain for 100 men and 100 animals, oxen, sheep, vegetables, nil, goats 20.
		6	WANDOOR.—8 m. 0 f.—Road fit for motors, b.p. (4,391). though partly metal- led and partly gravelled. A large village. Country culti- vated.
		52 m. 5 f.	Road crosses Ra'hathoilu river, unbridged. 2 m. Chembassen (3,028). Vettickaturi (3,612). 4 m. Polur (3,352). Chatangoliparam (3,744). 7 m. Vanniambulan (4,303). <i>Camping-ground.</i> —Nil. <i>Water.</i> —From 6 wells for 200 men and 200 animals. <i>Fuel.</i> —Obtainable. <i>Grazing.</i> —50 acres within 2 m. <i>Supplies.</i> —For 100 men and 100 animals for 2 days: oxen, sheep and vegetables nil, goats 25.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 22.
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		7	NILAMBUR.—8 m. 0 f.—Road fit for motors, <i>b. p. t.</i> (11,206). Varying country.
		60m. 5f.	A good-sized village. Cross the Vaturpuram river, bridged. 3 m. Pumapolu (3,283). 5 m. Mamba (5,377); <i>Camping-ground.</i> — <i>Nil.</i> <i>Water.</i> —From river, supply unlimited. <i>Fuel.</i> —Obtainable. <i>Grazing.</i> —50 acres 1 m. distant, for 500 animals. <i>Supplies.</i> —Grain for 200 men for 1 week and 200 animals for 5 days. Oxen, sheep, vegetables <i>nil</i> , goats 20.
		8	EDAKARA.—8 m. 0 f.—Road fit for motors, <i>b.</i> through jungle and woods.
		68m. 5f.	<i>Cross</i> Rahainpuyha river, bridged, also six boats available. A small village. <i>Camping-ground.</i> — <i>Nil.</i> <i>Water.</i> —From river, unlimited supply. <i>Fuel.</i> —Obtainable. <i>Grazing.</i> —50 acres, $\frac{1}{2}$ mile, for 500 animals. <i>Supplies.</i> —Small quantities only and previous notice. Goats 10. (Population included in Nilambur.)
		9	NADGHANI.—13 m. 2 f. Metalled road, fit for <i>b.</i> motors. Cross 2 streams, bridged.
		81m. 7f.	Country rocky and jungle. 10 m. Pathamthaza Amsoni. Ascend the Kirkur Hill. <i>Camping-ground.</i> —Extensive waste land available.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 22.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT. COLLECTOR OF NILGIRIS, OOTACAMUND. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water.</i>—Plentiful from stream. <i>Fuel.</i>—Obtainable. <i>Grazing.</i>—Plentiful close by. <i>Supplies.</i>—Nil.</p>
		10	<p> <i>Water.</i>—Plentiful from stream. <i>Fuel.</i>—Obtainable. <i>Grazing.</i>—Plentiful close by. <i>Supplies.</i>—Nil. </p>
		91m. 5f.	
		11	<p> <i>Water.</i>—Plentiful from stream. <i>Fuel.</i>—Obtainable. <i>Grazing.</i>—Plentiful close by. <i>Supplies.</i>—Nil. </p>
		102m. 5f.	<p> <i>Water.</i>—Plentiful from stream. <i>Fuel.</i>—Obtainable. <i>Grazing.</i>—Plentiful close by. <i>Supplies.</i>—Nil. </p>

No. 22 (1).

FROM KANNAKOLAM TO VADAKANCHERI.

Epitome.—Partially metalled and bridged, practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO 22 (1).
Civil.	Military.		
BRITISH RESIDENT, COCHIN, TRIVANDRUM.	G. O. C., MADRAS DISTRICT, WELLINGTON.		KANNAKOLAM.— <i>b. p.</i>
		1	VADAKANCHERI.—13 m. 3 f. <i>b. p.</i>
		13m. 3f.	

No. 22 (2).

FROM TIRTALLA TO TANUR.

Epitome.—Road metalled and passable by all arms of the service all the year round ; free from malaria.

Direction.—North-West.

COLLECTOR OF MALABAR, CALCUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.		TIRTALLA.—
		1	KUTIPURAM.—8 m. 0 f. Railway station. <i>r.</i>
		8m. 0f.	
		2	TIRUR.—11 m. 0 f. Railway station. <i>p. l. r.</i>
		19m. 0f.	
		3	TANUR.—6 m. 0 f. <i>b. p. r.</i>
		25m. 0f.	

No. 22 (3).

FROM PATAMBI RAILWAY STATION TO CHERPALCHERI.

Epitome.—This road is practicable for carts at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 22 (3).
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.		PATAMBI RAIL- WAY STATION. r.
		1 11m. 4f.	CHERPALCHERI.—11 m. 4 f. b. p.

No. 22 (4).

FROM ANGADIPURIAM TO MALATUR.

Epitome.—Bridged and metalled throughout, practicable at all seasons.

Direction.—North by East.

COLLECTOR OF MALABAR, CALICUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.		ANGADIPURIAM.— b. p.
		1 9m. 0f.	MALATUR.—9 m. 0 f.

ROUTE NO. 23.

AUTHORITIES.

Civil.

Mili-
tary.No.
of
stage
and
total
distance.

COLLECTOR OF SOUTH ARCOT, CUDDALORE.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

4

4m 6f.

Fuel.—10 cartloads.*Grazing*.—12 acres.*Supplies*.—(Weekly market: Matathur 2 m.) grain for 200 men and 50 animals for 2 days: oxen 7; sheep 10; goats 5; vegetables obtainable.

GINGEE.—11 m 2 f. Metalled road, fit for motors. If Nar-car stream is in flood,

traffic impeded. No boats available.

2 m. Matathur, (1,740). 3 m. Oddampet (781). 6 m. Settampandy (724). 7 m. Xavaral (877). 8 m. Appoapet (231). 9 m. Meengrur (1,324). 10 m. Naras nga in Royapet (478).

Route No. 36 crosses here. Country as before. A fair-sized village

Camping-ground.—1,000' × 500' N.-E.*Water*.—From river, unlimited.*Fuel*.—Scarce.*Grazing*.—From Forest Reserve, 2 m., for 200 animals.*Supplies*.—(Weekly Friday market Chettapalum.) Grain for 500 men and 200 animals for 3 days. Oxen 25; sheep 500; goats 500; vegetables 10 maunds.

5

53m. 4f.

VALATHI.—8 m. 6 f. Metalled road, not fit (1,468). for motors: not in

good repair. Country rocky and cultivated.

4 m. Vanakambadi (356). 5 m. Xadali (1,078).

5 m. Mavanadal (370). 7 m. Xamalam (1,110).

8 m. cross Sankaraparam R., bridged.

Camping-ground.—600' × 200', N. of village.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.			<p><i>Water</i>.—From 1 tank and 7 wells, for 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—Scarce.</p> <p><i>Grazing</i>.—Nil.</p> <p><i>Supplies</i>.—Weekly Sunday market. Grain, small quantities. Oxen 12; sheep 250; goats 200; vegetables 10 maunds.</p> <p>Arrangements must be made to send bazaar men from Gingee.</p>
		6	<p>CHETPAT.—8 m. 0 f. Metalled road, fit for p. (2,517). wheeled traffic.</p>
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	61 m. 4 f.	<p>Cross the Cheyar River, unbridged.</p> <p>Country cultivated, flat at first, afterwards hills on each side.</p> <p><i>Camping-ground</i>.—Newly selected site, 5 acres W. of road.</p> <p><i>Water</i>.—Form 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—Available from Forest Reserve.</p> <p><i>Grazing</i>.—Nil.</p> <p><i>Supplies</i>.—5 days' notice. Grain for 500 men and 500 animals. Some Oxen, sheep and goats obtainable. Vegetables obtainable.</p>
		7	<p>VIMAMANGALAM.—9 m. 4 f. Metalled road, (168). fit for motors. If Cheyar River in flood, may cause delay. No boats available. 1½ m. Gangarudamoni (290). 3¼ m. Semmam-bodi. 5½ m. Inderavanum (1,187). 8 m. Brahmanahatteri (884).</p> <p>Country cultivated: here and there wooded.</p> <p>A small village.</p> <p><i>Camping-ground</i>.—15 acres, N. of village.</p>

AUTHORITIES.

Civil.

Military.

No.
of
stages
and
total
distance.

ROUTE NO. 23.

COLLECTOR OF NORTH ARCOT, VELLORE.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

8

77m. 0f.

Water.—From a tank and wells, for 200 men and 100 animals.*Fuel*.—Obtainable.*Grazing*.—60 acres $1\frac{1}{2}$ m. distant, for 400 animals.*Supplies*.—Nil.

ARNI.—6 m. 0f. Metalled road, fit for motors. Country open and flat and highly

cultivated.

 $1\frac{1}{2}$ m. Agaram (616). 3 m. Nessal (799). 4 m.Velai (561). $4\frac{1}{2}$ m. Chittiri (388).*Camping-ground*.—51 acres, W. of Arni, to the right of the road, on high ground. Soft in wet weather.*Water*.—From tanks and wells, for 1,000 men and 200 animals.*Fuel*.—30 tons.*Grazing*.—21.0 acres $\frac{1}{2}$ m. distant, for 1,000 animals.*Supplies*.—Grain only, for 500 men and 100 animals for 2 days (rice, ragi, straw and grass available).

9

87m. 6f.

CHITTOOR 10 m. 6f. Metalled road, fit for motors.

(98). 2 m. Chevur (3,043).

4 m. Agraharapaliam (1,021). 6 m. Kunnathur (2,848). 7 m. Ariyapadi (2,021). At $\frac{1}{2}$

m. cross Kamandala nala by stone dam.

Country open and cultivated.

Water.—From Nuganadi, for 200 men and 100 animals, in rains.*Fuel*.—Available.*Grazing*.—Nil.*Supplies*.—Grain only, for 200 men for 3 days.*Camping-ground*.—Nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		10	KANIYAMBADI.—4 m. 5 f. Metalled road, <i>p.r.</i> fit for motors, good all the way, except over the hill, which is very steep and stony. Route No. 31 joins here. Country, hilly, jungly and cultivated. 3 m. Adukkumpadai. <i>Camping-ground</i> .—10 acres, high and dry, $\frac{3}{4}$ m. S of village. <i>Water</i> .—Scanty supply, within moderate distance. <i>Fuel</i> .—Scanty supply. <i>Grazing</i> .—Nil. <i>Supplies</i> .—Grain only can be made available at 10 or 20 days' notice.
		92 m. 3 f.	
		11	PALLIKONDA.—14 m. 0 f. Gravelled road, <i>p.</i> not fit for motors. <i>Fide Main Route</i>
		106 m. 3 f.	No. IV, stage No. 8. Route proceeds N. W. 5 m. Oosoor. 8 m. Aricut.
		12	MUDIKUPPAM.—12 m. 0 f. Metalled road, (1,802). fit for motors. At 3 m. pass Gudiyatan
		118 m. 3 f.	railway station and at 5 m. 2 f. the town, where Route No. 37 is crossed. Cross the Palar River (5 boats available) and Mudikuppam River, unbridged. 1 m. Chittuthur (259). 1½ m. Veppur (1,259). 4 m. Annumanaguppan (486). 4½ m. Sedupurai (265). 5 m. Gudiyathan. (23,390). 6 m. Sivur (1,138). 8 m. Pukkum (662). 9 m. Mupperum (667). 11 m. Sengeenram (2,050). <i>Camping-ground</i> .—5 acres, E. of village. <i>Water</i> .—From wells, for 100 men and 200 cattle.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF NORTH ARCOI, VELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	13	<p><i>Fuel and Grazing</i>—From Forest Reserve 1 m. distant.</p> <p><i>Supplies</i>.—5 sheep and 5 goats daily only available.</p>
		128 m. 3 f.	<p>BAVUGURPALLI or —10 m. 0 f. Road as BAI PAGARIPALLI before: the hill begins at 4 miles. (650)</p> <p>Some very steep gradients.</p> <p>Country mostly jungle, cultivated here and there.</p> <p><i>Camping-ground</i>—Close to the road and E. of village, for 1 battalion.</p> <p><i>Water</i>.—From 2 irrigation tanks and 1 well in vicinity, for 500 men and 200 animals.</p> <p><i>Fuel</i>.—Plenty obtainable.</p> <p><i>Fodder</i>.—Grazing for any number of animals in Forest Reserves in neighbourhood.</p> <p><i>Supplies</i>.—Oxen 28; sheep 28; goats 70; vegetables nil.</p> <p>Cross the Soyamagunta Pass.</p>
COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	14	<p>PALMANAR.—8 m. 0 f. Road as before, but b.p.t. (4,492). unfit for motors.</p> <p>Country wooded and jungly. A good-sized place, 2,300 feet above the sea.</p> <p>Route No. 28 joins and Route No. 43 crosses here. 5 m. Pengaragunta (885).</p> <p><i>Camping-ground</i>.—10 acres and 20 acres, close by. N. of the road and $\frac{1}{2}$ m. W. of village.</p> <p><i>Water</i>.—From 2 wells and a tank, for 1,000 men and 500 animals.</p> <p><i>Fuel</i>—Up to 2 tons, brought in daily.</p> <p><i>Grazing</i>—100 acres, 1 mile away, for 1,000 animals.</p>
		136 m. 3 f.	

ROUTE NO. 23.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADILAS DISTRICT, WELLINGTON.	15	<i>Supplies</i> —Grain for 1,000 men and 50 animals for 10 days; oxen 10; sheep 20; goats 40; vegetables 4 maunds, at Friday market.
		145 m. 7 f.	LINGAPURAM 9 m. 4 f. Metalled road, fit for motors. Cross 2 streams by causeway. Country open and jungly, undulating. A small village. 4½ m. Kallupalu (1,037). 7½ m. Panjani (302). <i>Camping-ground</i> —2 acres, E. of village; 3 acres close by. <i>Water</i> .—From a tank, for 1,000 men and 1,000 cattle. <i>Fuel</i> .—Supply difficult. <i>Grazing</i> .—300 acres, close by, for 1,000 animals. <i>Supplies</i> .—10 sheep and 10 goats only.
		16	PUNGANUR.—10 m. 4 f. Metalled road, fit for p. t. (7348). motors.
		156 m. 3 f.	A long town and residence of a zemindar. Country undulating, open and jungly. 2 m. Kottur (178). 4 m. Basonperin (75). 6 m. Gudupalu (86). <i>Camping-ground</i> .—10 acres W. of town. 10 acres additional. <i>Water</i> .—From 2 large tanks and 1 well, for 1,000 animals. <i>Fuel</i> .—Obtainable. <i>Grazing</i> .—30 acres, 2 m. distant, for 1,000 animals. <i>Supplies</i> .—Grain for 1,000 men and 1,000 animals for 1 week. Oxen 10, sheep 100, goats 100, vegetables 20 maunds daily.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	17	MADANAPALLE.—15 m. 0½ f. Road as before, but unfit for motors.
		171 m. 3½ f.	Headquarters of the Sub-Collector; a large village. 8 m. Angallo (1421), 9¾ m. hamlet. 11 m. hamlet. Cross 2 <i>nalas</i> , 15', fordable. Route No. 24 joins here. Country rocky and jungly, undulating. <i>Camping-ground</i> .—40,000 sq. yards to N.-W. <i>Water</i> .—From a <i>nala</i> , tank, and 2 wells, for 200 men and 300 animals. <i>Fuel</i> .—20 tons, cut. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 100 men and 300 animals for 1 month. Oxen nil, sheep 100, goats 50, vegetables 20 maunds.
COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	18	UNGALLUR.—6 m. 6 f. Metalled road, fit for motors.
		178 m. 3½ f.	Cross 1 <i>nala</i> , unbridged, fordable. Country rocky, jungle, with patches of cultivation. Route No. 24 joins here. <i>Camping-ground</i> .—⅓ square mile, N. of tank. <i>Water</i> .—From 1 tank and 5 wells <i>Fuel</i> .— } Nil. <i>Grazing</i> .— } <i>Supplies</i> .—Grain for 250 men and 200 animals for 1 week; oxen 15, sheep 50, goats 50, vegetables 30 maunds. 5½ m. Gouknorpalli.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		19	VAPURKOTTA.—15 m. 2 f. Metalled road, fit for motors.
		193 m. 5½ f.	Country as before, a small village. 3 m. Burkoyalakotta (1989). 5½ m. Thunnajunta (675). <i>Camping ground</i> .—6000 square feet N.-E. of village. <i>Water</i> .—From 2 wells, stream and tank. <i>Fuel and Grazing</i> .—Nil. <i>Supplies</i> .—Grain for 500 men for 1 week. Oxen nil, sheep 300, goats 300, vegetables 16 maunds.
		20	CHINKATAMA NAPALLI. 6 m. 0 f. Metalled road, fit for motors.
		199 m. 5½ f.	(1,199). Country as before. A small village about 2 miles from Malakalachervu railway station <i>Camping ground</i> .—Nil. <i>Water</i> .—From 2 wells, for 200 men and 500 cattle. <i>Fuel</i> .—Scanty. <i>Grazing</i> .—Nil. <i>Supplies</i> .—Ragi only for 100 men, oxen nil, sheep 25, goats 10, vegetables nil.
		21	TANAKALLU.—7 m. 0 f. Metalled road, fit for motors.
		206 m. 5½ f.	(with hamlet). 2½ m. cross Papagni stream, unfordable sometimes for 10 days when in flood, no boats available. Country as before. A small village close to the Railway station. <i>Camping ground</i> .—No special ground, but there are some good groves near the village.

ROUTE NO. 23.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER, COMMANDING MADRAS DISTRICT, WELLINGTON.			<p><i>Water.</i>—From 3 wells, for 500 men and 200 animals.</p> <p><i>Fuel.</i>—Scanty.</p> <p><i>Grazing.</i>—<i>Nil.</i></p> <p><i>Supplies.</i>—Grain for 100 men for 1 day. Oxen <i>nil</i>, sheep 50, goats 10, vegetables <i>nil</i>.</p>
		22	KADIRI.—14 m. 0 f. Metalled road, fit for p. r. (7607).
		220 m. 5½ f.	<p>Country as before. Chief village of the Sub-district; close to railway station.</p> <p>5 m. Nallachernu (2,614). 9½ m. Jogannapetta (2,061).</p> <p><i>Camping ground.</i>—No special ground.</p> <p><i>Water.</i>—From wells and stream, for 1,000 men and 1,000 cattle in a good season.</p> <p><i>Fuel and grazing.</i>—<i>Nil.</i></p> <p><i>Supplies.</i>—Grain for 1,000 men and 100 cattle for 3 days. Oxen <i>nil</i>, sheep 100, goats 20, vegetables <i>nil</i>.</p>
		23	MALAKAVAIMLA.—14 m. 0 f. Metalled road, r. (413). fit for motors.
		234 m. 5½ f.	<p>The river passes within ¼ m. of village, 200 yards wide, unfordable in floods, no boats.</p> <p>2 m. Kuttagulla (2056). Kalasamudram (963). 9 m. Patnam (2102).</p> <p>Cross stream, unbridged, fordable. Country as before.</p> <p><i>Camping ground.</i>—<i>Nil.</i></p> <p><i>Water.</i>—From river and wells, scanty supply, for 100 men and 950 animals.</p> <p><i>Fuel.</i>— } <i>Nil.</i></p> <p><i>Grazing.</i>— }</p> <p><i>Supplies.</i>—<i>Nil.</i></p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF CUDDAPAH.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	24	MUDIGUBBA.—8 m. 0 f. Metalled road, fit for p. (1531). motors. Country as before.
		242 m. 5½ f.	A large village near railway station. <i>Camping ground.</i> —No special ground. <i>Water.</i> —From wells, for 100 men and 100 animals. <i>Fuel.</i> — } <i>Nil.</i> <i>Grazing.</i> — } <i>Supplies.</i> —On previous notice, sheep 20, goats 5, other supplies <i>nil</i> .
		25	DAMPETLA.—12 m. 3 f. Road as before. (1,000). Country open and cultivated: a large village.
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	255 m. 0½ f.	5 m. Ganjapalli. 6½ m. Jonnalakothapalli. 9 m. Anantapur. Cross 3 small nalas, unbridged, fordable. <i>Camping ground.</i> —W. of village, for 2 Battalions. <i>Water.</i> —From Chitranathinala, for men and animals of 2 companies. <i>Fuel.</i> —Very limited. <i>Fodder.</i> —Limited. <i>Supplies.</i> —Grain for men and animals of 2 companies for 1 day. Oxen <i>nil</i> , sheep 100, goats 50, vegetables <i>nil</i> .
		26	SUNJIVAPURAM.—10 m. 6 f. Road and country as before.
COLLECTOR OF ANANTAPUR, ANANTAPUR.	G.O. C. TROOPS, BANGALORE.	265 m. 6½ f.	The river is 500 yards wide, fordable at ½ m., except when in flood. Cross the Chitravati River, 500 yards, unbridged, fordable. 8 m. Bathalapalli (2,300) <i>Camping ground.</i> —N. E. of village, for a Division.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING BANGALORE.		<p><i>Water.</i>—From 6 wells, for men and animals of 6 companies.</p> <p><i>Fuel.</i>—Very limited.</p> <p><i>Fodder.</i>—Grazing for 1,000 animals on reserve lands within 2 m.</p> <p><i>Supplies.</i>—Grain <i>nil</i>, sheep 50, oxen <i>nil</i>, goats 50, vegetables <i>nil</i>.</p>
		27	<p>ANANTAPUR.—11 m. 5 f. Metalled road, fit for motors. Country open.</p> <p><i>Vide</i> Main Route No. VI, Stage No. 31.</p> <p>Cross the Pundammar River, unbridged; in rains, sometimes in flood for 4 days.</p> <p>1 m. Yaraipalli (200). 5 m. Thikalapalli (648). 8 m. Akutitapalli (300). Water available.</p>
		277 m. 3½ f.	
		28	<p>KUDERU.—13 m. 0 f. Metalled road, fit for motors. A medium-sized village. Country open.</p> <p>4 m. Pachanapalli (444). Here cross stream, unbridged, fordable.</p> <p><i>Camping ground.</i>—30 acres good, at the 50th mile stone, 800 yards S.-E. of village, sufficient for a Regiment.</p> <p><i>Water.</i>—From wells for 100 men and animals.</p> <p><i>Fuel and Grazing.</i>—<i>Nil</i>.</p> <p><i>Supplies.</i>—(with notice) grain for 1,000 men and 1,000 animals. Oxen <i>nil</i>, sheep 20, goats 20, vegetables <i>nil</i>.</p>
		290 m. 3½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.	29	UDIRIPIDRUG.—10 m. 4 f. Metalled road, fit for motors. Country rocky and wooded.
		300 m. 7½ f.	1,200 feet above the sea. Penner River unfordable in flood. 5 m. Muddalapuram (60). 8 m. Jattopalli (70). <i>Camping ground</i> .—18·94 acres, N.-W. of village. Ground high, uneven, rocky and very hot. <i>Water</i> .—From a well and the Penner River, supply unlimited. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Scarce. <i>Supplies</i> .—Nil.
		30	URAVA-KONDA.—10 m. 3 f. Gravelled road, fit for wheeled transport. Country cultivated. Cross the Penner R., unbridged, ½ m. after leaving the last stage; it took the transport of a regiment 1 hour to cross with the help of one company. There is another stream about 1 m. further on, bridged stone culvert, ford has good bottom, but steep approaches on each side. 3½ m. Pennobalam (—); 3½ m., <i>nala</i> 7 yds., stone culvert. 5½ m. <i>nala</i> , 4 yds., stone culvert; 5½ m. <i>nala</i> , 5 yds., stone culvert; 6 m. <i>nala</i> , 6 yds., stone culvert; 7 m. Chinnamuthur (656). 7½ m. <i>nala</i> 8 yds., fordable; 9½ m. <i>nala</i> , 7 yds., stone culvert. 9½ m. <i>nala</i> , 25 yds., stone culvert; 10½ m. <i>nala</i> , 5 yds., stone culvert. <i>Camping ground</i> .—1½ m. S. of village, which is 1,560 feet above the sea.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING BANGALORE.	31	<p><i>Water</i>.—From 3 wells, for 500 men and 200 animals.</p> <p><i>Fuel</i>.—Cut, 500 lbs., with notice.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Of all sorts, obtainable with notice.</p>
		331 m. 2½ f.	<p>VIDAPANAKALLU.—10 m. Gravelled road.</p> <p>Country as before.</p> <p>Cross 10 <i>nalas</i>, unbridged, fordable, widest 40 yds.</p> <p>9 m. Malapuram (374). 9½ m. Valpumaduga (3,881). A small village.</p> <p><i>Camping ground</i>.—At the 21st mile stone, S. of village and ¼ W. of road.</p> <p><i>Water</i>.—From 4 wells and 1 tank, for 500 men and 200 animals, small drinking trough at the well.</p> <p><i>Fuel</i>.—Cut, 500 lbs., with notice.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Of all sorts, with notice.</p>
		32	<p>PARAMADAVANHALLI or HUGRI.—11 b. (455). m. Road and country as before.</p> <p>Railway station at Hagari, 2 furlongs from the village.</p> <p>Route No. 38 joins in this stage.</p> <p>6 m. Chellaginki, (1,308); 7 m. Jiladavani, (839); 10 m. <i>nala</i>, 20 yds., stone bridge.</p> <p><i>Camping ground</i>.—8 acres, E. of village, dry and shady but cramped.</p> <p><i>Water</i>.—From a well, for 400 men and 200 animals.</p> <p><i>Fuel</i>.—Cut, 500 lbs., with notice.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Of all sorts, obtainable with notice.</p>
COLLECTOR OF BELLARY, BELLARY.		342 m. 2½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING BANGALORE.	33	BELLARY.—9 m. Road and country as <i>b. p. t. r.</i> before. <i>Vide</i> Route No. 18.
		351 m. 2½ f.	Stage No. 34. Cross the Hogri R., unbridged, at 1st mile. It is ½ m. broad, approaches steep on both sides, bed sandy and very heavy in places, but dry. It took the transport of a regiment 1½ hours to cross with the help of one company and extra bullocks.
		34	DUMMUR.—11 m. 4 f. Metalled road, fair (1397). repair, fit for wheeled transport only.
		362 m. 6½ f.	Country as before. The village is at a distance of 1½ m. from the road. The village of Kolur (1,401) at the 10 m. may also be used as a stage. Cross several <i>nalas</i> , unbridged. 7 m. Samasamudrum (1,321); 10½ m. stream, 80 yds., fordable, except after heavy rain. <i>Camping ground</i> .—N.-W. of stage, 1,100 yds. × 440 yds. <i>Water</i> .—From 2 wells, for 500 men and 200 animals. <i>Fuel</i> .—500 lbs. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Unlimited, of all sorts, with notice.
		35	SANAVASAPURAM.—6 m. 4 f. Metalled (1,085). road, fit for motors, in good repair.
		369 m. 2½ f.	Country as before. Cross the Kolur R.; unbridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING BANGALORE.		<p>$\frac{1}{2}$ m. Bhatralur (113). 2 m. Byalur (1201). 4 m. Sindigiri (1014). Cross several small <i>nalas</i> with stone bridges. <i>Camping ground</i>.—Nil. <i>Water</i>.—From well and tank, for 500 men, in rains only. <i>Fuel, fodder and supplies</i>.—Nil.</p>
		36	<p>TAKKALAKOTA.—8 m. 4 f. Metalled road, p. (4,738). and country as before. A large village. Cross several <i>nalas</i>, bridged, stone. <i>Camping ground</i>.—No special ground, but vacant ground is available after the crops are cut. <i>Water</i>.—Only 1 well, sufficient for 100 men. <i>Fuel and Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 100 men and 50 animals for 3 days, other supplies nil.</p>
		377 m. 6 $\frac{1}{2}$ f.	
		37	<p>SIRUGUPPA.—8 m. Road fair. Country open and undulating; a small town on the right bank of the Southern branch of the Tungabhadra River. Cross several <i>nalas</i>, mostly bridged. 2 m. Halekota (1,195). <i>Camping ground</i>.—A tamarind grove, 110 yds. \times 44 yds., W. of stage, may be used for camping purposes. <i>Water</i>.—From the river and 7 wells, unlimited supply. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 400 men for 2 days. Other supplies nil.</p>
		385 m. 6 $\frac{1}{2}$ f.	

No. 23 (1).

FROM GUDIYATAM TO GROVE'S TANK.

Epitome.—Cross the Chittoor River, bridged. Road gravelled and bridged, practicable at all seasons.

Direction.—North East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23 (1).
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		GUDIYATAM.— <i>p. t. r.</i>
		1	GROVE'S TANK.—22m. 4f.
		22m. 4f.	

No. 23 (2).

FROM PUNGANUR TO NEAR KALLUR.

Epitome.—Gravelled and bridged, practicable at all seasons.

Direction.—North-East.

COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C., MADRAS DISTRICT, WELLINGTON.		PUNGANUR. <i>p. t.</i>
		1	NEAR KALLUR.—34m. 0f. <i>p.</i>
		34m. 0f.	

No. 23 (3).

FROM MADANAPALLE TO PILER.

Epitome.—Cross the Bahu and Panchi Rivers, unbridged. This road is gravelled throughout, and all the smaller streams are bridged; it is practicable for carts at all seasons, but traverses a hilly and wild country.

Direction.—East by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23 (3).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	MADANAPALLE.— <i>p. t.</i>
		5m. 1½f.	CHINNA TIPPASAMUDRAM.—5m. 1½f. <i>p.</i>
		2	VAYALPAD.—12m. 4f. <i>p. t. r.</i>
		17m. 5¾f.	
		3	KALKARRI. <i>r.</i>
		4	PILER.—22m. 0f. <i>p. r.</i>
		39m. 5¾f.	

Not known, about
10 miles.

No. 23 (4).

FROM VAYALPAD TO GURAMK ONDA.

Epitome.—Gravelled and practicable all the year round.*Direction*.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23 (4).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS. DISTRICT, WELLINGTON.	1	VAYALPAD. <i>p. t. r.</i>
		10m. 4½f.	GURAMKONDA.—10m. 4½f. <i>b.</i>

No. 23 (5).

FROM KADIRI TO RAJAMPET RAILWAY STATION.

Epitome.—Road gravelled throughout, and all small streams bridged; practicable at all seasons, except when the rivers are in flood after heavy rain; there are two hills on this road, each 5½ miles long, on each side of the river; they have a maximum gradient of 1 in 18.

Direction.—East.

COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.		KADIRI. <i>p. r.</i>	
		1	RAYACHOTL.—43m. 6½f.	Cross the Mandavi, Papaghni and Kus- havati Rivers, unbridged.
		43m. 6½f.	<i>b. p.</i>	
			(On Route No. 24.)	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23 (5).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	2	SONEPOY.—14m. 5½f.
		58m. 3½f.	
		3	RAJAMPET RAILWAY STATION.—19m. 6f. p. l. r. Cross the Cheyar River, unbridged.
		78m. 1½f.	

No. 23 (6).

FROM KADIRI TO PULIVENDLA.

Direction.—North.

COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	KADIRI. p. r.	
		1	PULIVENDLA.—28m. 3½f. p.
		28m. 3½f.	

No. 23 (7).

FROM URAVA-KONDA TO ALUR.

Epitome.—Partially gravelled, but not bridged; practicable for carts in ordinary monsoon weather; joins Route No. 26. Mostly metalled in the Bellary district but not bridged; practicable for carts at all seasons, except when there are unusual floods in the Vankahs, when there may be a delay of a day or two.

Direction.—West-North-West—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23 (7).	
Civil.	Military.			
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.		URAVA-KONDA. <i>p.</i>	
		1	GUNTAKAL,—21m. 3f. <i>Vide</i> Route No. 38, Stage No. 28. <i>b. p. t. r.</i>	
		21m. 3f.		
		2	CHIPPIGIRI.—9m. 4f. <i>p.</i>	
COLLECTOR OF BELLARY, BELLARY.		30m. 7f.		
		3	ALUR.—13m. 3f. <i>On</i> Route No. 26. <i>p.</i>	
		44m. 2f.		

ROUTE NO. 24.

FROM CALICUT TO VINUKONDA.

Authority and date.—General Officer Commanding, 9th Division, June 1910.

Epitome.—General direction N.-E. To the Malabar frontier, this road is bridged and metalled; practicable for wheeled traffic at all seasons, but during the rains it becomes very heavy in parts and would be difficult for guns or heavily laden carts. Two hills are crossed, the "Tamracheri" and the "Kalpet;" the length of the former is 9 m. with a maximum gradient of 1 in 17 and a mean of 1 in 19; that of the latter is $3\frac{1}{2}$ m. with a maximum gradient of 1 in 16 and a mean of 1 in 19. Thence to Antersante, it is not bridged and almost impassable in the monsoon, but from that point to Mysore, it is both metalled and bridged. From Mysore to Bangalore, it is a made road and bridged; except over the Arkavati, Shimsha and Cauvery rivers, which, when in flood, interfere much with traffic. Thence to Cuddapah, the road is a good metalled one, practicable for heavy wheeled traffic at all seasons; from that station to a little beyond Cumbum, the road is metalled, but the Penner and the Sagiler rivers are impassable when in heavy flood, the former especially being frequently in flood during the rains. Fever is prevalent in the Wynaad from January to May inclusive. Stages 47-50, the road is fit for country carts only. Total distance 534 miles, $2\frac{1}{2}$ furlongs—51 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 24.
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.	G. O. C., MADRAS DISTRICT, WELLINGTON	..	CALICUT.— <i>Vide</i> Route No. 2, stage No. 32. <i>b. p. & r.</i>
		1	MATAPADU.—11 m. 2 f. Metalled road, fit for motors. Country undulating and
		11m. 2f.	cultivated. A small village.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 24.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON,			<p>5 m. Chevayur (4,561). 6 m. Chelavur (2,678). 8 m. Mayanad (3,167). 8½ m. Kunnamangalam (5,260). 2½ m. Conolly Canal, bridged. <i>Camping ground.</i>—4 acres, N. of village. <i>Water.</i>—From the river and 7 wells, for 1,000 men and 500 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing: 50 acres, within 1 m., for 200 animals. <i>Supplies.</i>—Grain for 1,000 men and 500 animals for 3 days; with previous notice. Oxen and sheep <i>nil</i>, goats 50. Vegetables available.</p>
		2	<p>TAMRACHERI.—7 m. 4 f. Metalled road, fit <i>b. p.</i> for motors. Country hilly, with large forest trees and bamboos, cultivated, here and there a small village. 7½ m. Kedavuramram and Lesam (2,685). <i>Camping ground.</i>—64 acre, S.-E. of village. <i>Water.</i>—From the river and 2 wells. <i>Fuel.</i>—Scarce. <i>Grazing.</i>—1 m., scarce in dry weather. <i>Supplies.</i>—<i>Nil</i>. From Calicut, on notice.</p>
		18m. 6f.	
		3	<p>PUDUPADI.—7 m. 0 f.—Metalled road, fit for <i>b. p.</i> (1,428). motors. Country hilly and covered with jungle. <i>Camping ground.</i>—2.68 acres; N. of village; also dry lands S. of it. <i>Water.</i>—From the river, wells and stream; supply plentiful. <i>Fuel.</i>—Scarce. <i>Fodder.</i>—Grazing 1 m., scarce in dry season. <i>Supplies.</i>—<i>Nil</i>. From Calicut, on notice.</p>
		25m. 6f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 24.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	4	LAKKIDIL.—10 m. 2 f. Metalled road, fit for b. p. motors. Country as before. Cross 2
		36m. 0f.	streams, bridged. <i>Camping ground.</i> —Nil. <i>Water.</i> —From a <i>nala</i> , unlimited supply. <i>Fuel.</i> —Obtainable. <i>Grazing.</i> —1,000 acres, 3 m. distant, for 1,000 animals. <i>Supplies.</i> —Grain: for 500 men and 100 animals for 4 days. Oxen 10; sheep <i>nil</i> ; goats 5. Vegetables scarce.
		5	VAYITRI (PASS).—3 m. 0 f. Metalled road, fit p. l. (500). for motors. Country as before. Cross 3
		39m. 0f.	streams, bridged. 1 m. Chondale village. <i>Camping ground.</i> —50 acres Government land, 1 m. W. of village. <i>Water.</i> —From 2 wells and 1 stream, for 5,000 men. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing: 50 acres, $\frac{1}{4}$ m. E., for 500 animals. <i>Supplies.</i> —Grain for 500 men and 100 cattle for 4 days. Oxen 10; sheep <i>nil</i> ; goats 5. Vege- tables scarce.
		6	KALPATTY.—6 m. 0 f. Metalled road, fit for b. p. (500). motors. Country as before. Cross 3
		45m. 0f.	streams, bridged. 3 m. Chandali (1,000). <i>Camping ground.</i> —For a regiment, S. of town, and 50 acres close by.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 24.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.	7	<p><i>Water</i>.—From a <i>nala</i> and 5 wells, for 1,000 men and animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing 10 acres, close by, for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 500 men and 100 animals for 2 days. Oxen 15; sheep <i>nil</i>; goats 10. Vegetables <i>nil</i>.</p>
		56m. 0f.	<p>PANAMARAM.—11 m. 0 f. Gravelled road, fit for motors. Country as before. A large village. Bungalow at Kaniambetta (1,016), 3 miles away.</p> <p><i>Camping ground</i>.—16 acres, S. W. of village, and 15 acres additional.</p> <p><i>Water</i>.—7 wells, supply plentiful.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing $\frac{1}{2}$ m. distant, for 500 animals.</p> <p><i>Supplies</i>.—Grain for 500 men and 500 animals for 2 days. Oxen 10; sheep <i>nil</i>; goats 15. Vegetables <i>nil</i>.</p>
DY. COMMISSIONER OF MYSORE DISTRICT.	G. O. C., BANGALORE.	8	<p>MANANTODDY, 10 m. 2 f. Road cut up by wood traffic at Kankoti jungle, unfit for motor transport. A succession of abrupt ascents and descents, steep and stony. Country hilly and covered with bamboo jungle. Route No. 25 crosses and No. 35 joins here.</p> <p><i>Camping ground</i>.—55 acres. Sufficient for a regiment, 300 or 400 yds. S.-E. of village.</p> <p><i>Water</i>.—Indifferent from wells, but good from river 1 m. away.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 50 acres. $\frac{1}{2}$ m., plentiful.</p>
		63m. 2f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 24.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Supplies.</i>—Grain for 1,000 men and 1,000 animals for 15 days. Oxen 25; sheep 20; goats 20. Vegetables <i>nil</i>.</p>
		9	<p>BAWALLI.—11 m. 4 f. Road good. This (27). is a feverish spot, and a night should not be passed here.</p> <p><i>Camping ground.</i>—<i>Nil</i>. Several intermediate places.</p> <p><i>Water.</i>—From the river, plentiful and good.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing available.</p> <p><i>Supplies.</i>—<i>Nil</i>.</p>
		77 m. 6f.	
		10	<p>KAKANKOTE.—8 m. 2 f. Metalled road, unfit b. for motors, but fit for wheeled transport (is in bad repair). Country, a succession of ascents and descents through bamboo jungle. There is no village here. Only some public bungalows and at <i>rikhana</i>.</p> <p>1½ m. Timankohalli (10). 2½ m. Dairankopa (106). 2½ m. Anemola (98). 4 m. Magadahalli. 4½ m. Matchur (122). Cross 2 streams, bridged.</p> <p><i>Camping ground.</i>—For a wing in front and a wing in rear of the bungalow.</p> <p><i>Water.</i>—From the river. Supply plentiful.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing in Reserve Forest, ½ m., for 1,000 animals.</p> <p><i>Supplies.</i>—<i>Nil</i>. Must be sent from Mysore.</p>
		86m. 0f.	

ROUTE NO. 24.

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

DEPUTY COMMISSIONER OF MYSORE DISTRICT.

GENERAL OFFICER COMMANDING, BANGALORE.

11

99m. 1f.

ANTARSANTE.—13 m. 1 f. In this stage, first
b. p., (761). 4 m. unfit for motors.

Country jungly,

thick forest.

5½ m. Gundathur (210). 9½ m. Hosur (32).

11 m. Manchagoundenhalli (18). Cross 1 nala,
bridged.

Camping ground.—Very confined, E. of village.

Good ground 1½ m. short of Antarsante on the
left bank of the Kabbani R.

Water.—From Kabbani R. and from 1 tank (bad).

Fuel.—Obtainable.

Fodder.—Grazing in Forest Reserve 6 m. distant.

Supplies.—Nil. Must be sent in from Mysore.

12

112 m.
4 f.

KARIGALA.—13 m. 3 f. Metalled road, fit for
b. (203). motors. Country

covered with thick

jungle. Cultivated in parts.

¾ m. Noorilkoppa (566). 4½ m. Kolligounden-

halli (480). 6½ m. Yirahalli (258). 6½ m.

Bopanhalli (382). 7¾ m. Mallkeri (327).

10½ m. Madapur (578). 11½ m. Kolagaol

(1,157). Cross a stream, bridged.

A small village.

Camping ground.—7 acres, site of weekly fair.

Water.—From Kapila R., supply unlimited.

Fuel.—From Forest Reserve 4 m. distant.

Grazing.—2 m. distant, for 200 animals.

Supplies.—Nil.

13

124 m.
0 f.

CHATNAHALLI.—11 m. 4 f. Road fit for
b. (281). motors, suitable for

artillery and cavalry.

Country mostly open and cultivated.

1½ m. Hommayahalli (1059). 3¾ m. Hampapur

(405). 7¾ m. Guggandaipa (322). Cross

3 streams, bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 24.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping ground.</i>—High, dry and clear, 2.15 acres, E. of village.</p> <p><i>Water.</i>—From 3 wells and 2 tanks, not very good, for 500 men and 500 animals.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing: 747 acres, 2 m. distant, for 500 animals.</p> <p><i>Supplies.</i>—Grain for 100 men and 100 animals for 1 day; oxen 20; sheet 100; goats 50; vegetables <i>nil</i>.</p>
		14	<p>MYSORE.—11 m. 4 f.—<i>Vide</i> Main Route No. b. p. l. r. VI, stage No. 11. Country cultivated.</p>
		133 m. 4 f.	
		15	<p>BANNUR —14 m. 4 f. Gravelled road, unfit b. p. (4491). for motors, country as before, a large and healthy village.</p> <p>Cross the Cauvery R., unbridged, 2 boats available in floods.</p> <p>Cross 1 <i>nali</i>, bridged.</p> <p>11½ m. Rangachurhondi (334): Lakshmiपुरा.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—Plentiful. Supply from the Cauvery R. and well.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing 22 acres, 1½ m. distant.</p> <p><i>Supplies.</i>—Grain for 100 men and 50 animals for 1 day: at weekly market; oxen 5; sheep 10; goats 10; country vegetables in small quantities.</p>
		150 m. 0 f.	
		16	<p>MALVALLI.—15 m. 0 f. Metalled road, fit for b. p. motors. Country as before.</p> <p><i>Vide</i> Route No. 18, stage No. 16.</p> <p>Cross a stream, unbridged, fordable.</p>
		165 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.		17	<p>HULGUR.—12 m. 0 f. Metalled road, fit for motors. Country as before.</p> <p>Cross the Shimsha R., unbridged, heavy flood may cause delay.</p> <p>A large healthy place.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From 4 wells and 1 tank, for 4,000 men and 1,000 cattle for a week.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain (ragi only) for 500 men for 1 week; gram for 500 animals for 1 week; oxen nil; sheep 50; goats 50; vegetables nil.</p>
		177 m. 0 f.	
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	18	<p>KANKANHALLI.—16 m. 0 f. Metalled road; fit for motors. Country as before.</p> <p>1 m. Vaddaravasavallapura(—). 2½ m. Gundapur.</p> <p>2½ m. Kodihalli.</p> <p>3½ m. Devarahalli. 4 m. Honnahalli. 6½ m. Kemmoli (40). 7 m. Satunur (1,569).</p> <p>10½ m. Vaddarahalli</p> <p>10½ m. Atchalo</p> <p>11¼ m. Jakkegoundenhalli } (650). 14½ m. Sivanhalli (900).</p> <p>The Arkavati R. close to Kankanhalli, on the Bangalore side, has no bridge.</p> <p>All <i>nalas</i> have culverts.</p> <p>Headquarters of the sub-district, fairly healthy.</p> <p><i>Camping ground.</i>—Available: not far from the town, but no selected place.</p> <p><i>Water.</i>—From 4 wells and 4 tanks and the Arkavati R., for 1,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—25 cart loads with one week's notice.</p> <p><i>Fodder.</i>—Grazing ¾ m. distant, for 200 animals.</p>
		13 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil	Military.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING BANGALORE.		<p><i>Supplies.</i>—Grain for 1,000 men and 200 animals (more with notice). Oxen <i>nil</i>; sheep 50; goats 50; vegetables <i>nil</i>.</p>
		19	<p>HAROHALLI.—11 m. 0 f. Metalled road; fit for motors (fair order). Country hilly and jungly, cultivated near villages. 2½ m. Kalhalli (539), 4½ m. Rayasandra (373), 4½ m. Tungani (740). 7 m. Yellachi Katti (1075), 7½ m. Jaksandra (351), 8 m. Kirangere (251). 9 m. Devarakaglahalli (96). Cross the Arkavati R., unbridged, fordable except in heavy floods. No boats available. A small municipal town, healthy. <i>Camping ground.</i>—No selected site, uncultivated ground N. of village. <i>Water.</i>—From tanks and wells, for 500 men and 500 animals. <i>Fuel.</i>—25 cart loads with 1 week's notice. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Grain for 1,000 men and 500 animals for 5 days. Oxen <i>nil</i>, sheep 50, goats 50, vegetables <i>nil</i>.</p>
		204 m. 0 f.	
		20	<p>TALAGHATTAPUR.—14 m. 0 f. Road fit for motors. Country as before. 1 m. Marasandra, 1 m. Hoskote, 3 m. Gabbadi, 4 m. Kaglihalli, 5 m. Yedamaduray, 5½ m. Ganitakaudadi, 6½ m. Nelaguli, 9 m. Kaglipura, 9½ m. Salhunse, 10½ m. Udiphlya, 12½ Thatguni. Cross a stream, bridged. A small village.</p>
		218 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping ground.</i>—Nil, but at 3 furlongs beyond village there is some land which can be used after crops have been cut.</p> <p><i>Water.</i>—None except at villages, supply scanty.</p> <p><i>Fuel.</i>—2 cartloads daily.</p> <p><i>Fodder.</i>—Grazing 529 acres, 1 m. distant, for 2,000 animals.</p> <p><i>Supplies.</i>—Nil. Can be obtained from Bangalore with previous notice.</p>
		21	BANGALORE.—10 m. 0 f. Metalled road, fit for motors, but not so good as previous stage.
		228 m. 0 f.	<p><i>Vide</i> Main Route No. IV, stage No. 19.</p> <p>5 m. Yedyur (513): 7 m. Jaraganhalli (516): 8 m. Surakhili (642): 9 m. Varajahalli (300). Country as before.</p>
		22	KRISHNARAJPURA.—7 m. 6 f. Metalled road, fit for motors, good repair.
		235 m. 6 f.	<p>Country open, flat and cultivated.</p> <p>5 m. Shrinivisapuram (250): 5½ m. Jogapalaya (50): 5¾ m. Binnijanhalli (503). 5½ m. Naganarapalya (170): 6¾ m. Narayanapuram (70):</p> <p>All <i>nalas</i> are bridged.</p> <p><i>Camping ground.</i>—44·16 acres (when not under cultivation), S. of village.</p> <p><i>Water.</i>—From a tank, from July to January, for 500 men and 500 animals.</p> <p><i>Fuel.</i>—4 cartloads per day.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		Grazing <i>nil</i> . <i>Supplies</i> .—Very limited, and should be procured from Bangalore, if required in large quantities: one month's notice required for 1,000 men and 1,000 animals.
		23	HOSKOTE.—7 m. 4. <i>f</i> . Metalled road, fit for b. p. (4552). Country undulating and cultivated. Bridges at each end of Tank bund.
		243 m. 2 <i>f</i> .	2 m. Maidhalli (268) : 3 m. Avalhalli (110) : 5½ m. Katumnellur (227). A very large place. <i>Camping ground</i> .—Nil: not selected at present. <i>Water</i> .—From 2 large tanks and wells, for 5,000 men and 1,000 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing within ½ m., for 1,000 animals. <i>Supplies</i> .—Grain, large quantities, with notice; oxen 522; sheep 385; goats 407; vegetables <i>nil</i> .
		24	HINDAGANAL.—14 m. 6 <i>f</i> . Metalled road, fit (1134). Country open, with scrub jungle, interspersed with dry cultivation.
		258 m. 0 <i>f</i> .	3 m. Coonoor, 3½ m. (Chikhullur (314), 4½ m. Chokhalli (155). 5½ m. Mulmarkenhalli (125), 6 m. Sutiavara (179), 12 m. Nandaundi (857). <i>Camping ground</i> .—Nil. <i>Water</i> .—From 2 tanks and wells for 1,000 m. and 400 animals. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Grazing ½ m. distant, for 400 animals. <i>Supplies</i> .—A small quantity. Grain procurable on one month's notice; oxen 101; sheep 9 goats 240; vegetables <i>nil</i> .

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.	25	THALAGAVARA.—7 m. 4 f. Metalled road, fit for motors. Country as before.
		265 m. 4 f.	All streams bridged. Route No. 39 crosses in this stage. $\frac{1}{8}$ m. Kumbiga. halli, $\frac{1}{2}$ m. Chickondrahalli, 2 m. Agrahar. $2\frac{1}{2}$ m. Bacha, $2\frac{7}{8}$ m. Gowdalmulli, $3\frac{3}{8}$ m. Kul lahalli. $4\frac{1}{2}$ m. Viachakur, $5\frac{1}{4}$ m. Hosahalli. Camping ground.—Healthy: 33·32 acres N.-E. of village, and 4·20 acres additional. Water.—From a tank and 5 wells, for 500 men and 500 animals. Fuel.—50 cartloads can be cut. Fodder.—Grazing: 230 acres 2 m. distant, for 600 animals. Supplies.—Grain for (ragi), for 100 men for 20 days: oxen 100; sheep 150; goats 80; vegetables nil.
		26	MADIKERI.—7 m. 7 f. Metalled road, fit for motors. Country
		273 m. 3 f.	1st half of stage cultivation, thence hilly and jungly. Shanganhalli, Kaivara, Permahanahalli, Kindanahalli. Chinnasandrahalli, Venketapur, Madikere; Chintamani, Dudagurpur. Road passes the villages. Cross several streams and <i>nalas</i> , bridged. Camping-ground.—13·37 acres N. of village; and 65 acres close by. Water.—From 3 wells and 1 tank, for 600 men and 600 animals. Fuel.—Up 55 cartloads can be cut.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Fodder</i>.—Grazing: 155 acres $\frac{1}{2}$ m. distant, for 600 animals.</p> <p><i>Supplies</i>.—Grain (ragi) for 100 men for 30 days; oxen 154; sheep 170; goats 100; vegetables <i>nil</i>.</p>
		27	<p>THADAGOLE.—9 m. 4 f. Metalled road, fit b. (805.) for motors. Country open with jungle here and there. All streams and <i>nalas</i> bridged. Route No. 27 joins here.</p> <p>2 m. Ayanradelipalli, $3\frac{1}{4}$ m. Dandepalyar, $4\frac{1}{2}$ m. Marinayanhalli.</p> <p>$5\frac{1}{4}$ m. Joganpalli, $6\frac{1}{4}$ m. Golapalli, $8\frac{1}{2}$ m. Shigalpalyar.</p> <p><i>Camping ground</i>.—145 acres N - E. of village.</p> <p><i>Water</i>.—From 3 tanks and 1 well, for 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—30 cartloads.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>.</p> <p><i>Supplies</i>.—Grain obtainable; oxen 50; sheep 100; goats 50; vegetables <i>nil</i>.</p>
		282 m.	
		7 f.	
		28	<p>RAYALPAD.—12 m. 0 f. Road as before, b. p. (566'). but not fit for motors. Country rocky and jungly.</p> <p>1 m. Rasettipalli (355), 3 m. Sankanri-Kothapalli (189), Manchinikola (435).</p> <p><i>Camping ground</i>.—$\frac{1}{4}$ sq. m. S. E. of village.</p> <p><i>Water</i>.—Ample during rainy season, at other times small quantities can be had from well.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Very limited.</p>
		2 m.	
		7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		29	MADANAPALLE.—11 m 2 f Road as p. t. (14,000). before. Metalled and gravelled. Country partly jungle, partly cultivated.
		306 m. 1 f.	Vide Route No. 23, stage No. 17. 2 $\frac{3}{4}$ m. Ealigagur, 5 $\frac{1}{2}$ m. Chukalalighi <i>nala</i> , 25'; unbridged, fordable. 7 $\frac{1}{8}$ m. Balapalli, 7 $\frac{7}{8}$ m. Jookalapall, 10 $\frac{1}{2}$ m. <i>nala</i> ; 50', stone bridge.
		30	ANTILLU.—12 m. 3 f. Road as before. Country wooded and jungly in parts. A small village.
		318 m. 4 f.	Route No. 23 joins in this stage at Ungallur. 4 m. Chintamamela, 5 $\frac{1}{2}$ m. Governorpalle, 6 m. Angallur (1,421). 7 $\frac{3}{8}$ m. <i>nala</i> , 40', unbridged, fordable. 9 m. Kinalalack (3,948). 12 m. Mudivedi (2588). <i>Camping ground</i> .—Small, S.-W. of village. <i>Fuel and Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 1,000 men and 300 animals for 8 days. Oxen <i>nil</i> ; sheep 100; goats 50; vegetables 20 maunds.
		31	GURAMKONDA.—8 m. 3 $\frac{1}{2}$ f. Metalled road, b. (1,800). fit for motors. Country hilly, rocky and barren.
		326 m. 7 $\frac{1}{2}$ f.	<i>Camping ground</i> .—26 acres E. of village, for a regiment. <i>Water</i> .—From 2 wells and 1 tank, for 1,500 men and 400 animals.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.			<p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 15 acres, for 100 animals, $\frac{1}{2}$ m. away.</p> <p><i>Supplies</i>.—Grain for 100 men and 100 animals for 10 days.</p> <p>Oxen <i>nil</i>; sheep 100; goats 100; vegetables <i>nil</i>.</p>
		32	<p>CHINNA MANDIYAM.—14 m. 3 f. Road as before. Country hilly and stony and covered with small jungles.</p> <p>A small village.</p> <p><i>Camping ground</i>.—63 acres and 30 acres S. of village.</p> <p><i>Water</i>.—From a well and a <i>nala</i>, brackish.</p> <p><i>Fuel</i>.—Obtainable at 5 m. distant.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 500 men for 2 days; oxen <i>nil</i>; sheep 100; goats 10; vegetables, in season, up to 40 maunds.</p>
		341 m. 2 $\frac{1}{2}$ f.	
		33	<p>RAYA CHOTI.—10 m. 0 f. Road as before. p. (5224). All <i>nalas</i> have stone bridges.</p> <p>Country open and cultivated. A large place. Route No. 34 crosses here.</p> <p>Cross the Mandavi R., unbridged.</p> <p><i>Camping ground</i>.—High and dry, for 2 regiments, 10 acres N. of town.</p> <p><i>Water</i>.—Good, from a stream and wells, but scarce and distant.</p> <p><i>Fuel</i>.—40 cartloads.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 600 men and 100 animals for 2 days.</p> <p>4 or 5 maunds of vegetables available, when in season.</p>
		351 m. 2 $\frac{1}{2}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	34	CHITLUR.—7 m. 2 f.—Road and country as before.
		358 m. 4½ f.	A fair-sized village; ¾ m. river, 400', causeway. 4½ m. river, 166', bridged, iron girder; 4½ m. river, 400', causeway. Camping ground.—20 acres S.-E. of village. Water.—From a well, for 300 men and 300 animals. Fuel.— } Fodder.— } Nil. Supplies.—Very scarce, a few vegetables available when in season.
		35	GUUVVALCHERUVU.—9 m. 2 f. Road as before. Country wooded and cultivated.
		367 m. 6½ f.	All small <i>nalas</i> have stone bridges. 4 m. River, 100', stone bridge. 7 m., River, 100', stone bridge. Camping ground.—(1) 2 acres, (2) 4 acres, No. of village. Water.—From 1 well and tank. Fuel.—Obtainable. Fodder.—Grazing ½ m. from village. Supplies.—Grain nil; meat for 60 men for 2 days.
		36	CUDDAPAH.—16 m. 0 f. Road as before.
		383 m. 6½ f.	(BUGA BRIDGE). Country open and cultivated. p. & r. A large town and civil station. 6 m. Maddimadiyi. Cross a stream, 80, bridged. Route No. 38 crosses and No. 45 joins here. A road to the station and town turns off at 14 m. 5 f., but the Buga R. is unbridged and not passable in the rains, when in flood.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			<p>Descend the Banda Hill. <i>Camping ground.</i>—Close to bridge, on old parade ground. <i>Water.</i>—From 2 wells on stage. In Cuddapah, supply abundant. <i>Fuel.</i>—Unlimited. <i>Fodder.</i>—Grazing in vicinity. <i>Supplies.</i>—Available for large bodies of men and animals.</p>
		37	<p>SIDHOUT.—10 m. 4 f. Road as before, but unfitt for motors. (3,636). Country cultivated,</p>
		394 m. 2½ f.	<p>with patches of rocky jungle. A short hill at the 4th m., steep for about 2 furlongs : gradient 1 in 10. 4 m. cross the Penner R., unbridged, ½ m. wide : 2 boats for 50 men each available. <i>R.</i> usually fordable. 3. m. Thakkali (1001). <i>Camping ground.</i>—Nil. <i>Water.</i>—From river. <i>Fuel.</i>—From Forest Depot, 50—100 maunds. <i>Fodder.</i>—Grazing : 200 acres in vicinity; for 200—500 animals. <i>Supplies.</i>—Grain for 200 men for 3 days, oxen nil; sheep and goats in limited numbers; vegetables in small quantities.</p>
		38	<p>REDDIPALLI.—9 m. 4½ f. Road as before. (1,377). Country jungly.</p>
		403 m. 7f.	<p>All streams and <i>nalas</i> are bridged. The Arrepoy Pass, 4½ m. in length, is crossed in this stage. <i>Camping ground.</i>—Nil.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—From 1 well, for 40 men and 40 animals. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.— } <i>Supplies</i>.— } <i>Nil</i>.</p>
		39 l.	<p>BADVEL.—11 m. 3½ f. Metalled road, unfit for motors, owing to Sagiler R., which can only be crossed by carts. Country open and rocky. Route No. 46 is crossed at the entrance to Badvel. 4½ m. cross the Sagiler R., 270 yards wide, unbridged, unfordable in flood, but water subsides very quickly. 7 m. Puttipapulu (466). 8 m. Godoyanur (239). 9 m. Chinnatacheruvu (497). 11 m. Bhakrapet (1,749). A large place; headquarters of the sub-district. <i>Camping ground</i>.—542 acres, S. W. of town. <i>Water</i>.—From a large tank. <i>Fuel</i>.—10 cartloads, from Forest Depot. <i>Fodder</i>.—Grazing 500 acres. <i>Supplies</i>.—Grain for 3,000 men for 3 days; oxen <i>nil</i>; sheep 1,000; goats 1,000; vegetables 200 lbs.</p>
		415 m. 2½ f.	
		40	
		425 m. 4½ f.	<p>PAYALAKUNTA.—10 m. 2 f. Road fit for (303). motors. Country as before. 2 m. Anantarajapuram (1,652). 3 m. Gundanarajapolle. 6½ m. Pedullapoli (414). <i>Camping ground</i>.—S. of village. <i>Water</i>.—From tanks and wells.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	41	<p><i>Fuel.</i>— } <i>Nil.</i> <i>Fodder.</i>— }</p> <p><i>Supplies.</i>—Supplies from Kodur 2 m. W. Grain only 100 men for 4 days. Oxen <i>nil</i>; sheep 200; goats 400; vegetables <i>nil</i>.</p>
		434 m. 6 f.	<p>POREMAMLA.—9 m. 1$\frac{3}{4}$ f. Road metalled (3,311). and gravelled. fit for motors. Country as before, with scattered cultivation. 2$\frac{1}{2}$ m. Ithrapot; 3$\frac{1}{2}$ m. Dunthelapalli (the two 450). 5 m. Boppapuram (205); 6 m. Chinnaridappi (142); 8 m. Kammavanpalli (1,488). <i>Camping ground.</i>—20 acres N.-W. of town. <i>Water.</i>—From 2 wells and irrigation channels. <i>Fuel.</i>—Nil, but can be obtained from Forest Reserve. <i>Fodder.</i>—Grazing: 30 acres, 3 m. away. <i>Supplies.</i>—Grain for 1,000 men and 500 animals for 2 days; oxen <i>nil</i>; sheep 400; goats, 100; vegetables in small quantities.</p>
COLLECTOR OF KURNOOL, KURNOOL.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	42	<p>ALLINAGARAM.—14 m. 3 f. Metalled road, (1,237). fit for motors. Country wild.</p>
		449 m. 1 f.	<p>8$\frac{1}{2}$ m. pass Jilala, a large village, where troops could halt. Cross 2 streams, bridged. <i>Camping ground.</i>—20 acres S. of village, a few acres additional. <i>Water.</i>—From wells and <i>nalas</i>, for 500 men and 500 animals. <i>Fuel.</i>—Plenty obtainable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Fodder</i>.—Grazing: 1,091 acres, 2 m. distant, for 2,000 animals.</p> <p><i>Supplies</i>.—Grain for 200 men and 200 animals for 1 week; oxen, sheep and vegetables <i>nil</i>; goats 50.</p>
		43	<p>NALLAGUNTA.—10 m. 1 f. Metalled road, (746). fit for motors. Country cultivated.</p> <p>7 m. Komarble (3,164); 8 m. Yedumahal (2,169). Cross the Muthuvagu, bridged, and 1 stream, unbridged.</p> <p><i>Camping ground</i>—15 acres S. of village, and 10 acres additional.</p> <p><i>Water</i>.—From a <i>nala</i> and 19 wells and 3 small tanks, for 500 men and 500 animals.</p> <p><i>Fuel</i>.—Plenty obtainable.</p> <p><i>Fodder</i>.—Grazing: 495 acres 1½ m. away, for 1,000 animals.</p> <p><i>Supplies</i>—Sheep 150; goats 50 only.</p>
		459 m. 2 f.	
		44	
		469 m. 2 f.	<p>MOKSHAGUNDUM.—10 m. 0 f. Metalled (1,251). road, fit for motors. Country cultivated on both sides of road.</p> <p>5 m. Thatiahole (—): 9 m. Panchigalegroil (—).</p> <p><i>Camping ground</i>.—16 acres S. of village, and 14 acres additional.</p> <p><i>Water</i>.—For 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Plenty obtainable.</p> <p><i>Fodder</i>.—Grazing: 105 acres 2 m. distant, for 400 animals.</p> <p><i>Supplies</i>.—Grain for 200 men and 200 animals for 1 week; oxen <i>nil</i>; sheep 100; goats 100; vegetables <i>nil</i>.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	45	CUMBUM.—8 m. 2½ f. Metalled road, fit for motors. Country as before.
		477 m. 4½ f.	Route No. 47 crosses and No. 49 joins here. Cross the Gundlakanna R., bridged. 7¾ m. Bestwarapur (2124). <i>Camping ground</i> .—15 acres S. of village, and 10 acres additional. <i>Water</i> .—From 15 wells and 1 tank, for 1,000 men and 1,000 animals. <i>Fuel</i> .—Plentiful. <i>Grazing</i> .—Nil. <i>Supplies</i> .—Grain unlimited supply; oxen nil; sheep 200; goats 50; vegetables available, 4 maunds.
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	46	TARLAPADU.—10 m. 7 f. Road: first 5 miles only of this stage fit for motors; thence cart track. Country flat and cultivated.
		488 m. 3½ f.	8 m. Boddacherla (1432). Gundla Kamma, unfordable in flood. Cross by railway bridge. S. M. Railway station, 6 furlongs from village. <i>Camping ground</i> .—E. of village. <i>Water</i> .—From 20 wells and 1 tank for 1,000 men and 500 animals. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Grazing: 600 acres 2 m. distant, for 1,000 animals. <i>Supplies</i> .—Grain for 1,000 men and 500 animals; oxen 50; sheep 100; goats 100; vegetables nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		47	VENKATAPURAM OR RAYAVARAM.— <i>p.</i> (753). 7 m. 5 f. Road, cart track only and is unfit for motors and bad for transport. Country mostly cultivated.
		496 m. 0½ f.	4½ m. Surepalli (411); 6 m. Kethagudipi (408); 6½ m. Goguladinne (502). 6½ m. stream, unfordable in flood. Cross by railway bridge. Markapur railway station, 1½ m. away. <i>Camping ground.</i> —3 acres, W. of village and 10 acres additional. <i>Water.</i> —From 10 wells, for 1,000 men and 500 animals. <i>Fuel.</i> —From Forest 3 m. distant. <i>Fodder.</i> —Grazing: 300 acres, ½ m. distant, for 500 animals. <i>Supplies.</i> —Grain from Marhapur as required. Oxen 20; sheep 20; goats 20; vegetables <i>nil</i> .
		48	YINLACHERUVU.—12 m. 4 f. Road fit for (775). country carts only. Country flat and cultivated and partly jungle. 6 m. Pattapad (524). A fair-sized village. <i>Camping ground.</i> —S.-W. of village, for 4 regi- ments. <i>Water.</i> —From 4 wells and 1 tank, for 500 men and 200 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing for 100 animals, close by. <i>Supplies.</i> —Grain for 100 men and 100 animals; oxen <i>nil</i> ; sheep 20; goats 20; vegetables <i>nil</i> .

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	49	POTLAPADU.—8 m. 0 f. Cart track only, fit for country carts. (1,555). Country level and cultivated, rocky jungle in parts. Cross 1 stream, unbridged, fordable. A fair sized village.
		516 m. 4½ f.	<i>Camping ground.</i> —On large open plain, 30 acres, W. of village. <i>Water.</i> —From 3 wells and 1 tank for 400 men and 200 animals. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —Grazing close by for 100 animals. <i>Supplies.</i> —Grain for 500 men and 100 animals. Oxen <i>nil</i> ; sheep 30; goats 30; vegetables <i>nil</i> .
COLLECTOR OF GUNTUR, GUNTUR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	50	CHINTALACHERUVU.—7 m. 0 f. Metalled road as before to 5th mile; thence cart track only. Country open and flat. 3 m. Kurichedu (2000). 4 m. Vengazapalem (400). Road crosses some <i>nalas</i> , unbridged, fordable. Kurichedu railway station, in the Nellore district, and Gundlavamma railway station, in the Kistna district, each 3 m. distant from this stage.
		523 m. 4½ f.	<i>Camping ground.</i> —In and about a tamarind grove, W. of village, for 1 company. <i>Water.</i> —From wells, for 100 men only. Scarce in hot weather. <i>Fuel.</i> — <i>Nil</i> . <i>Fodder.</i> —Grazing for 100 animals 1 m. away. <i>Supplies.</i> —Grain very limited; oxen 30; sheep 700; goats 300; vegetables <i>nil</i> .

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (1).
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	2	CHOLADY BRIDGE (IRON GIRDER). 10 m. 0 f. No town or village. A large stream forming boundary between Nilgiri district and Malabar.
		20 m. 0 f.	
		3	CHERAMBADI.—2 m. 6 f. A small native town with a few shops. No travellers' bungalow, but a Local Fund inspection lodge.
		22 m. 6 f.	
		4	PUNDALUR.—7 m. 3 f. An important town during the gold mining industry, but now a petty village with a few small shops.
		30 m. 1 f.	
COLLECTOR OF NILGIRIS, OOTACAMUND.		5	DEVALA.—4 m. 0 f. Formerly headquarters of the gold mining industry and a flourishing town, but now a small village with deserted and decaying buildings and a few small shops. Travellers' bungalow.
		34 m. 1 f.	
		6	GUDALUR.—10 m. 4 f. Large village and some shops; a market on Sundays. Water from a <i>nala</i> and wells. Fever prevalent. Court-house. Travellers' bungalow and Public Works Department rest-house.
		44 m. 5 f.	

No. 24 (2).

FROM KALPATTY TO CHAMARAJNAGAR.

Epitome.—As far as Gundlupet, the road is made and bridged; but would be difficult in the rains for guns or heavily-laden carts, Bayond Gundlupet, it is a fair weather road.

Direction.—North East.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (2.)
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		KALPATTY. <i>b. p.</i>
		1	SULTAN'S BATTERY.—15 <i>m.</i> 0 <i>f.</i> A good <i>b. p.</i> bazar here, affording excellent supplies; the bungalow is pleasantly situated in an old redoubt on an eminence; camping ground in the vicinity; country hilly and very jungly; soil red.
		15 <i>m.</i> 0 <i>f.</i>	
		2	YEDDADURAL.—8 <i>m.</i> 1 <i>f.</i> A few houses; camping ground bad, on the steep bank of a <i>nala</i> ; water abundant; thick jungle on every side; country undulating and cultivated in the villages, jungle elsewhere. A feverish place.
		23 <i>m.</i> 1 <i>f.</i>	
		3	PARAMBADI.—16 <i>m.</i> 4 <i>f.</i> 20 houses; camping ground near the village, in the dry bed of a tank, with jungle on all sides; water very good; road very good, with the exception of the first 4 miles; country very jungly and undulating; hills on each side; no supplies.
		39 <i>m.</i> 5 <i>f.</i>	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (2).
Civil.	Military.		
DY. COMM. OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	4	GUNDLUPET.—9 m. 5 f. (To bungalow.) <i>b. p. t.</i> A large place; camping ground
		49m. 2 f	good and sufficient for 4 or 5 regiments with abundance of water from a large tank; the road is good and leads through thick jungle for 3½ miles, which extends to the hills on each side; country flat; supplies available.
		5	UDIGALA.—13 m. 0 f. Suitable camping ground not avail-
		62 m. 2 f.	able during the cultivating seasons; at other times, a field 200 yards off may be used; good water from two wells near; straw and firewood obtainable; other supplies must be arranged for.
		6	CHAMARAJNAGAR.—7 m. 2 f. <i>Vide Route</i> <i>b. p. t.</i> No. 15, stage No. 13.
		69 m. 4 f.	

No. 24 (3).

FROM ANTARSANTE TO NEAR HUNSUR.

Epitome.—A good road, practicable at all seasons.*Direction.*—North-West.

DY. COMM. OF MYSORE DIST.	G. O. C. BANGALORE.	ANTARSANTE. <i>b. p.</i>
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AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (3).
Civil	Military		
DY. COMMR. OF MYSORE DISTRICT.	G. O. C., BANGALORE.	1	HEGGAD DEVANKOTE.—6 m. 7 f. Good p. camping-ground about 6 furlongs from the town; water from the Taraka and Hallestri-katte rivers; supplies available
		6 m. 7 f.	
		2	HUNSUR.—18 m. 1 f. b. p. t.
		25 m. 0 f.	

No. 24 (4).

FROM BANNUR TO KIRANGUR.

Epitome.—Cross several irrigation streams, unbridged. A good fair weather road.

Direction.—North-West.

SUB-DIV. OFFR. FRENCH ROADS.	DY. COMMR. OF MYSORE DISTRICT.	G. O. C., BANGALORE.	
			BANNUR.— b. p.
		1	KIRANGUR.—11 m. 5 f. (NEAR SERINGAPATAM.)
		11 m. 5 f.	

No. 24 (5).

FROM SATANUR TO CHANNARAYAPATNA.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (5).
Civil.	Military.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	G. O. C., BANGALORE.		SATANUR.—
		1	CHANNARAYAPATNA.—18 m. 4 f.
		18 m. 4 f.	On Main Route VI.

No. 24 (6).

FROM KANKANHALLI TO MAGADI.

Epitome.—The road is gravelled, but unbridged, as far as Closepet, thence it is made, but very hilly and practically bridged.

Direction.—North-West.

DY. COMR. OF BANGALORE DIST.	G. O. C., BANGALORE.		KANKANHALLI.— b. p.
		1	CLOSEPET.—16 m. 4 f.
		16 m. 4 f.	b. p. r.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (6).
Civil.	Military.		
DEPUTY COMM. OF BANGALORE DISTRICT.	G. O. C., BANGALORE.	2	PADAVATTE.—10 m. 5 f.
		27 m. 1 f.	
		3	MAGAD.—11 m. 4 f.
		38 m. 5 f.	p.

No. 24 (7).

FROM KADGODI RAILWAY STATION TO HOSKOTE.

Epitome.—A bridged road, practicable at all times.*Direction.*—North-East.

DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		KADGODI RAILWAY STATION.— p. r.
		1	HOSKOTE.—7 m. 0 f.
		7 m. 0 f.	b. p.

No. 24 (8).

FROM MADIKERI TO BAGEPALLI.

Epitome.—A made road, practicable for carts at all seasons.*Direction.*—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (8).
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.		MADIKERI.—
		1	CHINTAMANI.—3 m. 0 f. Distance approximate.
		3 m. 0 f.	p.
		2	DIBBUHALLI.—17 m. 0 f.
		20 m. 0 f.	b.
		3	SADLI.—4 m. 2 f.
		24 m. 2 f.	p.
		4	MITTEMARI.—4 m. 2 f.
		38 m. 4 f.	p.
		5	YELLAMPALLI.—4 m. 4 f.
		23 m. 0 f.	
		6	BAGEPALLI.—6 m. 2 f. Cross the Chitravati river (unbridged).
		39 m. 3 f.	p.

No. 24 (9).

FROM GURAMKONDA TO SONEPOY.

Epitome.—Cross one large stream, unbridged. A metalled road; almost always practicable as far as Kalvadda, thence a mere track, but over hard soil and practicable at all times.

Direction.—East by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (9).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT, G. C. WELLINGTON.	1	GURAMKONDA.— b. KALKADDA.—14 m. 2 f.
		14 m. 2 f.	
		2	
		31 m. 2 f.	SONEPOY.—17 m. 0 f. Cross two streams; unbridged.

No. 24 (10).

FROM POREMAMLA TO BOLAPILLI.

Epitome.—Thirteen miles of the road are in the Cuddapah district; and are partly metalled, and gravelled; remainder of the road is a mere track unmetalled and unbridged: impracticable for carts in the rainy season.

Direction.—North-West by North.

COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT, G. C. WELLINGTON.		POREMAMLA.—
		1	
		16 m. 0 f.	UMALAVADA.—16 m. 0 f. Cross the Sagile river, unbridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 24 (10).
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	G. O. C., MADRAS DISTRICT, WELLINGTON.	2	GIDDALUR.—14 m. 0 f. <i>p. r.</i>
		30 m. 0 f.	
		3	AKUVID.—14 m. 0 f. Cross a branch of the Gunolakamma and Vampaler R., un-
		44 m. 0 f.	bridged.
		4	BOLAPALLI.—12 m. 4 f. Distances approx- imate.
		56 m. 4 f.	

No. 24 (11).

FROM VINUKONDA TO DACHEPALLE.

Epitome.—Cross the Naguleru (thrice), eighteen small streams and several small *nalas*, unbridged. A metalled road.

Direction.—North.

COLLECTOR OF GUNTUR, GUNTUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.		VINUKONDA.—A railway station. <i>b. p. t. r.</i>
		1	
		29 m. 0 f.	KAREMPUDI.—29 m. 0 f.
		2	DACHEPALLE.—13 m. 0 f.— <i>Vide</i> Main Route <i>b. p.</i> No. III, stage 24.
		42 m. 0 f.	

ROUTE No. 25.

FROM OOTACAMUND TO CANNANORE.

Authority and date.—General Officer Commanding, 9th Division, June 1910.

Epitome.—Direction north-west. The road from Ootacamund to Neddawattam, at the head of the Gudalur Hill, is metalled and bridged throughout; the Gudalur Hill is 10 miles 3 furlongs in length, with a maximum gradient of 1 in 18 and a mean of 1 in 20; the roadway averages 14 feet in width and is metalled, bridged and drained throughout; the total fall from the summit to Gudalur is 2,787 feet. From Gudalur to Manantoddy, the road is bridged throughout and metalled; practicable at all seasons. Fever prevails about the hill from January to June. Thence to Cannanore the road is metalled throughout, and all streams but the Mambaram River or back water are bridged. Though practicable at all seasons, some portions are likely to be very difficult for carts in the rainy season, when the rainfall is very heavy, sometimes exceeding 200 or 300 inches in the hills. The Peria Hill is 8½ miles long, with a mean gradient of 1 in 19 and a maximum of 1 in 17; it is well made and kept up. Fever prevails in the Wynaad portion of this road from February to May, inclusive. Total distance 142 miles 5 furlongs—12 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 25.
Civil.	Military.		
COLLECTOR OF NILGIRIS, OOTACAMUND.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	OOTACAMUND.— <i>Vide</i> Main Route No. VI, (FROM THE MARKET.) Stage No. 1. <i>p.t.r.</i>
		13 m. 0 f.	PYKARA.—13 m. 0 f. Metalled road, fit for <i>bp.</i> (30) motors. Country open and undula- ting grass downs. A small hamlet. 2 m. KANDAL (1,500); 5 m. sandy <i>nala</i> , 18 yds.; bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 25.
Civil.	Military.		
COLLECTOR OF NILGIRIS, OOTACAMUND. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	<p><i>Camping ground.</i>—100 acres, mud hamlet. <i>Water.</i>—Unlimited supply from river. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing close by for 1,000 animals. <i>Supplies.</i>—Nil.</p>
		21 m. 4 f.	<p>NEDDIWATTAM.—8 m. 4 f. Road as before. b. (250). Country partly open, partly tea estates. 5 m. Black Ridge river, 20, wooden bridge. 6 m. Liddlesdale (100). Road falls gradually from Ootacamund, gradient nearly uniform, 1 in 19. <i>Camping ground.</i>—30 acres, E. and W. of hamlet. <i>Water.</i>—From a spring and a stream, for 1,000 men and 1,000 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing within 2 m. for 1,000 animals. <i>Supplies.</i>—All sorts, for 300 men and 100 animals for 1 day.</p>
		31 m. 0 f.	<p>GUDALUR.—9 m. 4 f. <i>Vide</i> Route No. 22, b. p. t. Stage No. 10. Road as before. Country jungly. Descend Gadalur hill. 7½ m. Hallala stream, 25' wooden bridge.</p>
		4	BETTAMAND.— <i>Cancelled.</i>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 25.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	5	SULTAN'S BATTERY.—26 m. 4 f. Gravelled b. p. (500'). road, fit for motors from December to May only.
		57 m. 4 f.	Country open and cultivated. 9½ m. Nalpayya (150). All streams are bridged. <i>Camping ground</i> .—60 acres, E. of village, and 60 acres additional. <i>Water</i> .—From stream and 3 wells, for 1,000 men and 1,000 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing: 500 acres, 1 m. distant, for 500 animals. <i>Supplies</i> .—Grain for 500 men and 500 animals for 1 day; oxen 2; sheep 5. Any further supplies will need notice.
		6	PANNAMURTAKOTA.—17 m. 0 f. Gravelled (3,179). road, fit for motors up to 7th mile of this stage only; after that in bad repair.
		74 m 4 f.	Country jungly, interspersed with cultivation. Road gentle descent all the way. Route No. 24 joins here. A union village. 7 m. Meemanyaddi (100); 8 m. Kaniamhalli (50); cross a stream, bridged. <i>Camping ground</i> .—16 acres, S. W. of village, and dry land close by. <i>Water</i> .—From 7 wells, supply plentiful. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 500 animals close by. <i>Supplies</i> .—Grain for 500 men and 500 animals for 2 days; oxen 10; sheep <i>nil</i> ; goats, 15; vegetables <i>nil</i> .

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 25.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	7	MANANTODDY.—10 m. 2 f. Gravelled road, <i>b. p. t.</i> fit for motors, in good repair.
		84 m. 6 f.	Country as before. <i>Vide</i> Route No. 24, stage No. 8.
			3 m. Telliseri (1,389). 5 m. Kollur (559); $\frac{1}{2}$ m. cross Panamaram R., unbridged, fordable, boats available.
			4 m. Manantadi R., fordable, boat available.
		8	PERIAR.—16 m. 4 f. Metalled road, fit for <i>b.</i> motors: passes through through some tea
		101 m. 2 f.	estates, steep and stony. Country hilly and jungly.
			4 m. Narangal (188); 10 m. Dindimal (429); Zhakot (1,397). Cross 9 <i>nalas</i> , bridged.
			<i>Camping ground</i> .—About 10 acres, N.-E. of village; also large space at 12th m. of the stage. <i>Water</i> .—From streams, supply plentiful. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing: 1 m., for 500 animals. <i>Supplies</i> .—Not obtainable.
		9	NEDDUMBAL.—11 m. 0 f. Gravelled road, <i>b.</i> (25). fit for motors.
		112 m. 2 f.	Descend the Peria hill. Country hilly and covered with thick jungle. This is a feverish spot, and a night should not be spent here. <i>Camping ground</i> .—About 6 acres, close to village. <i>Water</i> .—Plentiful and good, from a stream on the camping ground, for 500 men and 100 animals. <i>Fuel</i> .—Obtainable.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 25.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.	12	<p>CANNANORE.—16 m. 0 f. Gravelled road, fit for motors. <i>b. p. t. r.</i> <i>Vide</i> Route No. 2, stage No. 39.</p> <p>Country hilly and cultivated in the valleys but jungly at first. 12 m. Kerez Thall (675); 13 m. Chowa (2,437); 12 m. Chowa river, bridged. The backwater is crossed by two large boats and some small ones. All <i>nalas</i> bridged.</p> <p><i>Camping ground.</i>—In dry weather, on W. side of backwater.</p>
		142 m. 5 f.	

No. 25 (1).

FROM NEDDUMBAL TO KUNJAMANGALAM.

Epitome.—The road is metalled as far as Srikanthapuram; about 5 miles beyond Irukkur, thence to near Taliparamba, it is a mere track, impassable in the rains; the remainder of the road is metalled. Metalled portions practicable at all seasons.

Direction.—North by West.

COLLECTOR OF MALABAR, CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.		NEDDUMBAL.— <i>b.</i>
		1	IRITTY.—12 m. 4 f. <i>p.</i>
		12 m. 4 f.	
		2	IRUKKUR.—10 m. 4 f. Cross 5 rivers, unbridged. Four of the rivers are fordable in the dry season, one is crossed in boats.
		23 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 25 (4).
Civil.	Milit- ary.		
COLLECTOR OF MALABAR, CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.	3	TALIPARAMBA.—18 m. 0 f, p.
		41 m. 0 f.	
		4	KUNJAMANGALAM.—Cross the Taliparamba river by ferry.

ROUTE NO. 26.

FROM CANNANORE TO KURNOOL.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1918.

Epitome.—General direction north-east. The road as far as Seringapatam is metalled and bridged so as to be passable at all seasons, but troops should not be marched by it before the end of December, as the rains do not cease until then; the Periambadi Pass is well made and is passable for heavy wheeled traffic at all times; it is $8\frac{1}{2}$ miles in length and has an average gradient of 1 in 18. Fever is more or less prevalent about the hill from December until June. Thence to Hiriyur it is a made road, metalled or graveled and partly bridged; beyond that place the road is metalled and bridged, so that is practicable at all seasons for all arms. This is by far the best route for troops marching between Bangalore and Bellary. From Bellary to Guntur, the road is almost entirely metalled and in good order; it passes through several unbridged rivers and *nalas*, but these are rarely impassable, except after heavy rain. Total distance 419 m. 0f; 40 stages.

There is a route from Bangalore to Cannanore *via* Yelval, Bilkere and Hunsur; then straight by main road to Cannanore *via* Gopalkai.

Road for about 131 m. near Sitnatupo over the Ghat by Periambadi as far as the 31st milestone. From 80 m., road is quite good, but narrow, and there would be difficulty in motor lorries passing.

There are no rest-houses on the main road. If the journey is going to take two days, the first night should be spent in Mysore.

Petrol can be obtained in Mysore and in Cannanore.

Total distance 182 miles.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.		GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	CANNANORE. <i>Vide</i> Route No. 2, stage No. 6. p. t. r. 20.
			<p>1 KODALI.—10 m. 1 f. Gravelled road, fit for (2,804). motors Country undulating and open.</p> <p>A medium sized village. 3 m. Chowa (2,437). 4½ m. Mandayad (1,638). 5 m. Varum (1,892). 6 m. Valianur (1,182). 7½ m. Chelora (584). 7½ m. Sehore (2,401).</p> <p><i>Camping ground</i>.—26·8 acres, W. of village.</p> <p><i>Water</i>.—Good and abundant, for 1,000 men and animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing nil.</p> <p><i>Supplies</i>.—Local supplies small. Oxen 5. goats 10. Vegetables 50 lbs. only.</p>
			<p>2 CHAWACHAIRY.—10 m. 4 f. Metalled road, (1374). fit for motors. First 7½ m. gravelled; thence metalled. Country as before, with patches of cultivation. 7½ m. Mattanur (1,210); Cross 1 stream, bridged.</p> <p><i>Camping-ground</i>.—10 acres in village and 10 outside.</p> <p><i>Water</i>.—From 3 wells and 1 tank, for 1,000 men and 1,750 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 200 acres ½ m. away, for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 300 men for 1 day. Oxen 200; sheep nil; goats 75. Vegetables 50 lbs.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.	3	<p>CANOTE.—9 m. 7 f. Metalled road, fit for b. motors. Country as before.</p> <p>In this stage, pass Iritty bridge and 1 stream, bridged. 2 m. Uliyil (2,300). 6 m. Irritti (100).</p> <p><i>Camping-ground.</i>—About 5 acres in village and 3 acres near.</p> <p><i>Water.</i>—From river and wells, unlimited supply.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Grazing.</i>—15 acres $\frac{1}{2}$ m. distant, for 500 animals.</p> <p><i>Supplies.</i>—Oxen 30; goats 40.</p>
		30m. 4f.	
SUPERINTENDENT OF COORG, MERCARA.	GENERAL OFFICER COMMANDING, BANGALORE.	4	<p>WOTACOLLY.—12 m. 3 f. Metalled road, fit for motors. Coun- try practically all heavy jungle. The foot of the pass is reached at 6$\frac{3}{4}$ m. Complete the descent of the hill in Coorg at 7$\frac{1}{2}$ m. from Canote. 3$\frac{3}{4}$ m. Coorg boundary. Kutumpaya (100).</p> <p>Cross 5 streams, bridged. Fever is prevalent at Wotacolli from March to June, inclusive; no village.</p> <p><i>Camping-ground.</i>—2 acres, W. of main road.</p> <p><i>Water.</i>—Abundant supply, from the river.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing; 500 acres near, for 200 ani- mals.</p> <p><i>Supplies.</i>—Nil.</p>
		42m. 7f.	
		5	<p>AHTUR.—10 m. 2 f. Metalled road, fit for motors. Country all cultivated. A small hamlet. 3 m. Argi (837). 5 m.</p>
		53m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Mili- tary.		
SUPERINTENDENT OF COORG, MERCARA.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>Balugodo (509). 6½ m. Anartti (78). 7½ m. Bittangala (756). 9¼ m. Kola Tada Baigodu (509). Cross 3 streams bridged.</p> <p><i>Camping-ground</i>.—9.21 acres; S.-E. of village, and 6 acres close by.</p> <p><i>Water</i>.—From a well and a stream ¼ m. away, supply plentiful.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: poor, close by.</p> <p><i>Supplies</i>.—Nil.</p>
		6	<p>THITTIMUTTI.—9 m. 3 f. Metalled road, fit p. (895). for motors. Road runs mostly through Forest land. Little cultivation. A small village. 1 m. Hatturu (604). 1¾ m. Kaikeri (755). 3 m. Arovathakolu (999). 4¼ m. Hebale (709). 7¼ m. Badragule (1,361). 8¼ m. Nokya (895). Cross 7 streams, bridged.</p> <p><i>Camping-ground</i>.—Well situated and easy of access, 10.51 acres, S. of village; and 6 acres close by.</p> <p><i>Water</i>.—From well and tank, for 100 men and 100 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing for 1,000 animals close by.</p> <p><i>Supplies</i>.—Nil.</p>
		62m. 4f.	
		7	<p>PANCHAVALLI.—10 m. 3 f. Metalled road, b. (298). fit for motors. Country undulating, dense jungle all the way. A very small village. 4½ m. Aneebookur. Cross 1 nala, bridged.</p>
		72m. 7f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Mili- tary.		
DEPUTY COMMISSIONER OF MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping-ground.</i>—Good and high; 7 acres, N. of village; and about 50 acres close by, but will require clearing.</p> <p><i>Water.</i>—The tank is very small and dries up quickly. Water bad. A Local Fund well has now been sunk. Water for 1,000 men.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing: plentiful, close by, for 2,000 cattle.</p> <p><i>Supplies.</i>—Grain <i>nil</i>. Oxen 100; sheep 50; goats 50. Vegetables <i>nil</i>.</p>
		8	
		83m. 3f.	<p>HUNSUR.—10 m. 4 f. Metalled road, fit for b. p. t. (4,559). motors. Country hilly and jungly, with a little cultivation at intervals. <i>Vide</i> Route No. 19, stage No. 29. If possible, the stage should be avoided and the road from Anichaukar to Periyapatna substituted, as a fine road has been opened between these places, and is maintained by the Public Works Department. Cross 2 streams, bridged. Health of Panchavalli indifferent. Route No. 10 branches off N.-W. from Panchavalli.</p>
		9	
		95m. 7f.	<p>BILIKERE.—12 m. 4 f. Metalled road, fit for b. p. motors. <i>Vide</i> Route No. 19, stage No. 28.</p> <p>4½ Somanahalli (500). 11½ m. Malnathpur (187). ¼ m. cross the Lakshumathirtho river, bridged. first 6 m. cultivation, then jungle.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
DY. COMMR., MYSORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	10	YELVAL.—7 m. 0 f.—Metalled road, fit for <i>b. p.</i> motors. Country high and dry. All <i>nalas</i> bridged. <i>Vide</i> Route No. 19, stage no. 27.
		102m. 7f.	
		11	SERINGAPATAM.—12 m. 3 f. Metalled road, <i>b. p. l. r.</i> fit for motors. Country open and cultivated. <i>Vide</i> main Route No. VI, stage No. 12. 5½ m. Belgola (1,730). 9 m. Palhalli (1,811). 10½ m. Parchinivatini (12). 10½ m. and 11½ m. branches of Cauvery river, bridged, also 3 streams, bridged.
		115m. 2f.	
SUB-DIVISIONAL OFFICER, FRENCH ROCKS.	GENERAL OFFICER COMMANDING, BANGALORE.	12	CHATTRAM.—9 m. 4 f. Metalled road, in fair (THIRUMALSAGAR). repair, fit for motor (120'). from Mysore Gate. Country partially cultivated. This road, open and flat, passes through the French Rocks town (1860), which was once a military station. At 6 m. 4 f. cross Cauvery river, bridged. 1½ m. Thiangu (1,435). 2½ m. Dayasuguppan (425). 7½ m. Hennal (937). 7½ m. Baningutta (127). 2½ m. cross a canal, bridged. <i>Camping-ground.</i> —High and good, near the stream. 3·14 acres round <i>village</i> and 2·27 acres close by. <i>Water.</i> —From a stream 300 yds. S. at all seasons. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Graving <i>nil</i> . <i>Supplies.</i> —Sheep 100; goats 50; and some vegetables only.
		124m. 6f.	

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 26.	
Civil.	Military.			
DIVISIONAL OFFICER, FRENCH ROCKS.	GENERAL OFFICER COMMANDING, BANGALORE.	13	CHINNYA.—11 m. 0 f. Metalled road, fit for p. (1,047). motors. Country open and cultivated.	
		135m. 6f.	<p>$\frac{1}{4}$ m. Higulguppa (418). $1\frac{1}{2}$ m. Telya (406). 4 m. Bellalé (360). 6 m. Amruti (413). $6\frac{3}{4}$ m. Nyamanahalli (276). $7\frac{1}{2}$ m. Zukkanhalli (244). 9 m. Haradi (323). <i>Camping-ground</i>.—High and good, near the water, but no special site set apart. <i>Water</i>.—Scarce. 1 tank and 1 well, for 200 men and 100 animals only. <i>Fuel and Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 300 men and 200 animals for 2 days. Oxen <i>nil</i>; sheep 200; goats 100. Vegetables <i>nil</i>.</p>	
		14	NAGAMANGALA.—10 m. 0 f. Metalled road, b. p. (3,483). fit for motors.	
		145m. 6f.	<p>Country hilly for a short way, mostly open and cultivated. 1 m. Honakere (289). $2\frac{1}{2}$ m. Guppenahalli (159). $3\frac{1}{2}$ m. Samakhalli (366). 5 m. Bammaduhalli (275). 6 m. Thonnanur (434). 9 m. Mallenhalli (50); a large place with a round fort. $1\frac{1}{2}$ m. cross the Locapavany river, bridged. <i>Camping-ground</i>.—Close to tank, but no special site allotted. <i>Water</i>.—3 tanks and 4 wells; supply unlimited, when all full. <i>Fuel and Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 1,000 men and 800 animals for 3 days. Oxen <i>nil</i>; sheep 500; goats 20. Vegetables <i>nil</i>.</p>	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	SUB-DIVISIONAL OFFICER, FRENCH ROCKS.	15	<p>NELLIGERE.—10 m. 0 f. Metalled road, fit (near BELLUR). for motors. Country open, with dry cultivation. Route No. 39 crosses here. 1½ m. Uppurhalli (369). 1¾ m. Chandenhalli (52). 3 m. Lachenhalli (168). 5 m. Chittanhalli (330). 5½ m. <i>Buvanhalli</i> (204). 6¾ m. Vodayapura (114).</p> <p><i>Camping-ground</i>.—Extensive ground on both banks of the Viravaishnava river, but no special site allotted. Paddy fields all around Bellur; but no camping ground. Opposite the village, there is a fair plain on the left bank of the river, near the road leading to Mayasandra, 2 m. from Nelligere.</p> <p><i>Water</i>.—From river, for 500 men and 200 animals.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain, oxen, and vegetables <i>nil</i>; sheep 200; goats 100.</p>
		155m. 6f.	
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	SUB-DIVISIONAL OFFICER, FRENCH ROCKS.	16	<p>MAYASANDRA.—9 m. 3 f. Road partly (b. p. (1,047). metalled and partly gravelled, fit for motors. Country hilly and rugged part of the way.</p> <p>8½ m. Chikkusettigare (—). All <i>nalas</i> bridged. A large village having a fort.</p> <p><i>Camping-ground</i>.—Good and extensive near the water, ½ m. N. of village.</p> <p><i>Water</i>.—From a large tank north of village for 1,000 men and 1,000 animals.</p>
		165m. 1f.	

AUTHORITIES.		No. of stages and total distance.	ROUTE NO. 23.
Civil.	Military.		
DEPUTY COMMISSIONER, OF TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.	17	<p><i>Fuel and Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 500 animals for 1 day. Oxen <i>nil</i>; sheep 100; goats 100. Vegetables very scarce.</p>
		176m. 5f.	<p>KADABA.—11 m. 4 f. Metalled road, fit for b. p. (1,537). Country open with dry, cultivation. $\frac{1}{2}$ m. Tubinkatti (—). $2\frac{1}{2}$ m. Vadvingatta. $5\frac{1}{2}$ m. Baichihalli (—). $8\frac{1}{2}$ m. Matigutta. $9\frac{1}{2}$ m. Peddanhalli. $6\frac{1}{2}$ m. cross Shimsha river, bridged. Cross 5 streams, bridged. A large valley, with mud fort.</p> <p><i>Camping-ground.</i>—20 acres N.-W. of village and 20 acres near by.</p> <p><i>Water.</i>—From a large tank, supply moderate.</p> <p><i>Fuel.</i>— } Nil.</p> <p><i>Grazing.</i>— }</p> <p><i>Supplies.</i>—Grain for 100 men and 100 animals for 1 week. Oxen 267; sheep 139; goats 57. Vegetables <i>nil</i>.</p>
		18	<p>CHELUR.—15 m. 0 f. Road fit for motors. p. (1,152). First 4 m. gravelled, thence metalled.</p> <p>Country open, flat and cultivated. 5 m. 5 f. Cross Route No. 37 at Nittur—b. $1\frac{1}{2}$ m. Adsonhalli (155). 3 m. Belvattur (493). $5\frac{1}{2}$ m. Nittur. 7 m. Hesarhalli. $9\frac{1}{2}$ m. Uddehoskere. $13\frac{1}{2}$ m. Kodiyal (394). A large village, with a mud fort.</p> <p><i>Camping-ground.</i>—Good and high to the right of the old fort, 18·32 acres S. of village, and in hot weather uncultivated lands.</p>

AUTHORITIES.

Civil.

Mili-
tary.No.
of
stage.
and
total
distance.

ROUTE NO. 26.

DEPUTY COMMISSIONER OF CHITALDROOG, CHITALDROOG.

DEPUTY COMMISSIONER
OF TUMKUR, TUMKUR.
G. O. C., TROOPS, BANGALORE.

GENERAL OFFICER COMMANDING, BANGALORE.

22
225m.3f.23
237m.3f.24
247m.7f.25
262m.0f.

JAVANGONDANAHALLI.—12 m. 0 f. *Vide*
b.p. Main Route No.
IV, stages Nos. 27,
28 and 29.

HIRIYUR.—12m. 0 f.
b.p.t.

YERRABALLI.—10m. 4f. Metalled road, fit
b. (916). for motors, in fair
order. Country
undulating and cultivated. 4½ m. Balenahalli
(540). 8 m. Harti (1519). Vedavati River
runs close by this place. All streams bridged.
A small village.

Camping-ground.—200' × 500', N. of village.
Water.—From wells, for 1,000 men and 500
animals.
Fuel and Fodder.—*Nil.*
Supplies.—Grain for 1,000 men and 500 animals
for 1 day. Oxen *nil*; sheep 5; goats 5.
Vegetables *nil*.

CHALLAKERE.—14 m. 1f. Metalled road,
b.p.t. (2,505). fit for motors.
Country undulating and cultivated.
Route No. 41 joins here. 5 m. Sonekere (828).
10 m. Hottappanahalli (592). All streams and
nalas bridged. The first *nala* is very difficult
in bad weather. The *nala* crossed before
arriving here is approached by a very deep
bog in wet weather. A large place.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
DEPUTY COMMISSIONER OF CHITALDROOG, CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping-ground</i>.—30·12 acres, W. of town, and 41·28 acres close by.</p> <p><i>Water</i>.—From a large tank, for 700 men and 700 animals.</p> <p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>, but fodder for 500 animals obtainable with notice.</p> <p><i>Supplies</i>.—Grain, with notice; for 500 men and 500 animals. Oxen 2; sheep 50; goats 50. Vegetables <i>nil</i>.</p>
		26	<p>TALAK.—9m. 3f. Metalled road, fit for motors. b. (993). Country undulating and highly cultivated. 4 m. Buddenhatti (467). Chikkamarianahalli (302). Ugriammanahalli (354). All streams and <i>nalas</i> are bridged. A moderate-sized but increasing place.</p> <p><i>Camping-ground</i>.—High and hard, both sides of the road, 24·5 acres, W. of village, and 38·30 acres close by.</p> <p><i>Water</i>.—From a large tank, stream and wells, for 500 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>, but fodder for 300 animals obtainable with notice.</p> <p><i>Supplies</i>.—Grain for 300 men and 300 animals, with notice. Oxen 2; sheep 50; goats 50. Vegetables <i>nil</i>.</p>
		271m. 3f.	
		27	<p>BOMMANKERE.—11 m. 0f.—Metalled road fit for motors. b. (1,098). Country undulating and cultivated.</p>
		282m. 3f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
DEPUTY COMMISSIONER OF CHITALDROOG, CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>2 m. Kadihalli. 6 m. Herehalli. All streams and <i>nalas</i> are bridged. A large village.</p> <p><i>Camping-ground</i>.—35·3 acres, S.-W. of village.</p> <p><i>Water</i>.—From a large tank and 2 wells, for 500 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>, but fodder obtainable with notice.</p> <p><i>Supplies</i>.—On previous notice. No vegetables.</p>
		28	<p>HANGAL.—11m. 0f. Metalled road, fit for <i>b.</i> (602). Country high, undulating and open, mostly cultivated, but as this stage is approached becomes hilly. Hangal itself is surrounded by hills. 8 m. Royapur (678). 8 m. Yerriahalli (197), a small village.</p> <p><i>Camping-ground</i>.—11·34 acres, N. of village, and 4·7 acres in a <i>tope</i> close by.</p> <p><i>Water</i>.—From 2 tanks and 3 wells, for 500 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>, but fodder obtainable with notice.</p> <p><i>Supplies</i>.—Obtainable with notice. No vegetables.</p>
		293m. 3f.	
		29	<p>RAMPUR.—12m. 5f. Metalled road, fit for <i>b. p.</i> (1,606). Country flat, with occasion hills, mostly cultivated. 4 m. Aurkundi (413); 9 m. Byrapura (545) and Chikkarehalli (687).</p>
		306m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
DY. COMM. OF CHITAL- DROOG, CHITALDROOG.	COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	<p>All streams and <i>nalas</i> are bridged. A good sized place.</p> <p><i>Camping-ground</i>.—24·13 acres, N.-W. of village.</p> <p><i>Water</i>.—From wells, for 500 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>, but fodder obtainable with notice.</p> <p><i>Supplies</i>.— On previous notice. No vegetables.</p>
			<p>HERIAL.—9 m. 0f. Road as before. Country mostly open and cultivated, rocky patches.</p> <p><i>Cross several nalas, bridged.</i> A large village.</p> <p><i>Camping-ground</i>.—26·68 acres, N.-E. of village, also 76 acres at Obalpuram, 2 m. N. of and ½ m. from railway station.</p> <p><i>Water</i>.—From 4 wells within easy access, good and plentiful.</p> <p><i>Fuel</i>.—</p> <p><i>Fodder</i>.—</p> <p><i>Supplies</i>.— } Any quantity on requisition.</p>
			<p>BELLARY.—12m. 0 f. Road as before.</p> <p><i>b.p.t.r.</i> (South gate of Fort). Country undulating at first, then flat and cultivated. <i>Vide</i> Route No. 18, stage No. 34.</p>
			<p>MOKA.—11m. 4f. Road as before, moderate repair. Country as before. 3½ m.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
COLLECTOR OF BELLARY. GENERAL OFFICER COMMANDING, BANGALORE.			<p>Sanganakalli (1161). 6 m. Siravaram (1060). 6 m. Kappayal 2 m. N. of road (1198). Cross 3 <i>nalas</i>, bridged stone and brick. A large village.</p> <p><i>Camping-ground</i>.—$\frac{1}{2}$ m. S. of village, sufficient for a regiment when crops are cleared; W. of stage.</p> <p><i>Water</i>.—From a spring $\frac{3}{4}$ m. from camp.</p> <p><i>Fuel</i>.—250 lbs.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain, etc., for unlimited numbers on previous requisition.</p>
		33	<p>HALAHARVI.—9m. 2f. Road as before, good repair. Country cultivated, interspersed with rocky hills. 2m. Yerragudi (1,232). Cross several small <i>nalas</i>, all bridged, one stone and brick. Cross the Hagari R., unbridged, 100 yds. wide. A fair-sized village.</p> <p><i>Camping-ground</i>.—440 yds. \times 176 yds., N. of village.</p> <p><i>Water</i>.—From 6 wells, for 2,000 men and 1,000 animals.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 cattle for 1 week. Oxen <i>nil</i>; sheep 50; goats 50. Vegetables: Brinjal and greens available.</p>
		347m. 6f.	
		34	<p>HOTURU.—12m. 3f. Road as before. Country as before. $3\frac{1}{2}$ m. Karuvatur (690). $6\frac{1}{2}$ m. Alur (3,574). Cross several small <i>nalas</i>.</p>
		360m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	35	<p>A large village. <i>Camping-ground</i>.—1,265 yds. \times 506 yds., S.-E. of village. <i>Water</i>.—From 3 wells, for 2,000 men and 1,000 animals. <i>Fuel and Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 1,000 men and 1,000 animals for 1 week. Oxen <i>nil</i>; sheep 200; goats 150. Country vegetables available.</p>
		337m. 4f.	<p>ASPARI.—7m. 3f. Road as before. Country <i>p.t.r.</i> (2,354). cultivated and rocky. Route No. 51 crosses here. A fair-sized village. $1\frac{1}{2}$ m. Chinnahathur (2,984). <i>Camping-ground</i>.—990 yds. \times 400 yds., No stage. <i>Water</i>.—From 3 wells, for 1,000 men and 500 animals. <i>Fuel</i>.—5 cartloads stacked. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 1,000 men and 500 animals for 1 week. Oxen <i>nil</i>; sheep 200; goats 200. Country vegetables available.</p>
COLLECTOR OF KURNOOL, KURNOOL.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	36	<p>POTAKALAMARI.—8m. 4f. Metalled road; (Hamlet of Prutukur fit for motors. 1,377). Country open and cultivated. 4 m. Billekallur (1,725). Village some distance from the road. <i>Camping-ground</i>.—Good and open, 1 sq. m., N. of village</p>
		373m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water.</i>—Limited, from a <i>nala</i>, for 100 men and 100 animals.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing; 50 acres, 2 m distant, for 4,00 animals.</p> <p><i>Supplies.</i>—Grain for 100 men and 100 animals for 2 days. Oxen 61; sheep 136; goats 55. Vegetables <i>nil</i>.</p>
		37	
		384m. Of.	<p>KARIVEMULA.—8 m. Of. Metalled road, fit for motors. Country open and cultivated. A small village. Cross the Hindri R., unbridged. <i>Camping-ground.</i>—N. of village.</p> <p><i>Water.</i>—From a well and a tank, for 400 men and 400 animals.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing; 100 acres, 2 m. distant, for 400 animals.</p> <p><i>Supplies.</i>—Grain for 400 men and 400 animals for 1 week. Oxen 265; sheep 805; goats 372. Vegetables <i>nil</i>.</p>
		33	
		397m. Of.	<p>KODUMUR.—13m. Of. Metalled road, fit for motors. Country undulating and cultivated. Re-cross the Hindri R., unbridged; if flooded, 6 boats available. A large village. <i>Camping-ground.</i>—3 acres, E.-N.-E. of village.</p> <p><i>Water.</i>—From the Hindri R., for 6,000 men and 1,000 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing. 400 acres, 1 m. distant, for 100 animals.</p> <p><i>Supplies</i>.—Grain for 100 men and 100 animals for 2 days. Oxen <i>nil</i>; sheep 30; goats 30. Vegetables <i>nil</i>.</p>
		39	<p>NAGALAPURAM.—10m. 6f. Metalled road; (1,053). fit for motors. Country open and cultivated. 3½ m. Pyalukurthi and 5½ m. Ramachandrapuram (these together 1835). 10 m. Punchiki Lipad (745). All <i>nālas</i> are bridged. A medium-sized village.</p> <p><i>Camping-ground</i>.—10 acres, N. of village.</p> <p><i>Water</i>.—For 1,500 men and 1,000 animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing; 40 acres, 2 m. distant, for 100 animals.</p> <p><i>Supplies</i>.—Grain for 200 men and 200 animals for 1 day. Oxen <i>nil</i>; sheep 10; goats 10. Vegetables obtainable.</p>
		407m. 6f.	
		40	<p>KURNOOL.—11m. 2f. Metalled road, fit <i>b.p.t.</i> for motors. Country open and cultivated.</p> <p><i>Vide</i> Main Route No. VI, Stage No. 40. Cross a river channel with a masonry causeway. 4 m. Salkapuram (862). 6 m. Puddapan (1371). All <i>nālas</i> bridged.</p> <p>For continuation see Vol. II Indian Route Book.</p>
		419m. 0f.	

ROUTE No. 26 (1).

FROM WOTACOLLY TO MUDIGERE.

Epilome.—The Coorg boundary is crossed at 1 mile 6 furlongs from Kodlipet; at 43 m. from Mercara, a branch road turns E. to Arkulgode; at 22 m. 1 furlong from Mercara, a branch road runs south to Fraserpet. Road mostly unmetalled.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26 (1).
Civil.	Military.		
SUPERINTENDENT OF COORG, MERCARA, GENERAL OFFICER COMMANDING, BANGALORE.			WOTACOLLY.
		1	VIRARAJEN DRAPET. 6 m. 6 f. <i>p. t.</i>
		6m. 6f.	
		2	MURNAD.—10 m. 0 f. Capacious camping-ground. Water from wells. Small quantities of supplies and carriage obtainable. Cross the Cauvery River at 7 furlongs, by causeway during months from November to June, and by ferry double platform iron boats from July to November. <i>Vide</i> Route No. 19, stage No. 33.
		16m. 6f.	
		3	MERCARA.—9 m. 5f. Branch road turns W. to Napoklu and Nalkand at 1 m. 1 furlong. Branch road turns E. to Ahmatti and Pollibetta.
		26m. 3f.	

AUTHORITIES.		No. of stages and total distance.	ROUTE NO. 26 (1).
Civil.	Military.		
DY. COMM'R, KADUR, CHIKNAGALUR. DEPUTY COMMISSIONER OF HASSAN, HASSAN. SUPERINTENDENT OF COORG, MERCARA.	GENERAL OFFICER COMMANDING, BANGALORE.	4	JAMBUR.—12 m. 0 f. No village. No supplies. Capacious camping-ground. Water from two wells and the river $\frac{1}{2}$ m. off. Country open and undulating. River crossed by a causeway in fair weather, and by ferry from June to October; bridge under contemplation. Cross the Holle River, unbridged.
		38m. 3f.	
		5	SOMAVARPETT.—13 m. 4 f. Capacious camping-ground. Water from streams, wells and tanks. Grain only obtainable. Cross the Madapoor River.
		51m. 7f.	
		6	SANIVAR- 11 m. 0 f. Capacious camping-SANTHE. ground. Water from tank and from river $1\frac{1}{2}$ m. distant. No supplies or carriage.
		62m. 7f.	
		7	KODLIPET.—7 m. 4 f. Large camping-ground. Water from tank close by. No provisions or carriage obtainable.
		70m. 3f.	
		8	SAKLASPUR.—19 m. 0 f. Headquarters of b. p. t. Manjarabad.
		89m. 3f.	
		9	MUDIGERE.—24 m. 0 f. Cross the Hemavati b. p. t. River, unbridged, at Anjur.
		113m. 3f.	

ROUTE No. 26 (2).

FROM VIRANJENDRAPET TO FRASERPET

Epitome.—This road is metalled and bridged as far as Sidapur, suitable for artillery at all times of the year, and for cavalry and infantry from 15th June to 31st October; thence to Fraserpet, the road is very heavy for artillery. During the south-east monsoon, fever prevails about the hills more or less, from December to June.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26 (2).
Civil.	Military.		
SUPERINTENDENT OF COORG, MERCARA.	GENERAL OFFICER COMMANDING, BANGALORE.		VIRARAJENDRAPET. <i>p. t.</i>
		1	SIDAPUR.—6 m. 6 f. Leaves the Sidapur-Mercara road at 3½ m. from Sidapur; an earthen road, passes through dense jungle almost all the way; joins Route No. 19 at 3½ m. from Fraserpet.
		6m. 6f.	
		2	FRASERPET.—18 m. 4 f. <i>p. t.</i>
		25m. 2f.	

ROUTE No. 26 (3).

FROM POLLIBETTA TO NALKAND.

Epitome.—This road is unmetalled and unfit for artillery. From Murnad; it is a narrow earthen road through open undulating country.

Direction.—North-West and South.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26 (3).
Civil.	Military.		
SUPERINTENDENT OF COORG, MERCARA.	GENERAL OFFICER COMMANDING, BANGALORE.	1	POLLIBETTA.— Small camping-ground; <i>p. t.</i> insufficient supply of water.
		5m. 2f.	AHMATTI —5 m. 2 f. Good camping-ground. Cross the Cauvery River at 3 m. 5 furlongs, fordable during dry season, crossed by double platform ferry boats during the rains. At 4 m. 2 f. cross the Kullholay, which is occasionally unfordable during the rains.
		2	MURNAD.—10 m. 0 f. Large camping-ground; <i>p.</i> water from wells. A small quantity of supplies and carriage obtainable.
		15m. 2f.	
		3	NALKAND.—20 m. 6 f. Large and good camping-ground at Napoklu, at about 3 m. Abundant water, but, no supplies or carriage available. There is a small camping ground at Nalkand, with plenty of water 1 m. distant. Cross the Cauvery River, unbridged; fordable during dry weather and crossed by double platform ferry boats.
		36m. 0f.	

ROUTE No. 26 (4).

FROM ANICHAUKAR TO FRASERPET.

Road made, but practicable at all seasons as far as Periyapatna; thence metalled and in excellent order.

Direction.—North and North-West

AUTHORITIES.		No of stage and total distance.	ROUTE NO. 26 (4).
Civil.	Military.		
THE COLLECTOR OF HYDERABAD.	DY. COMR., MYSORE DISTRICT. GENERAL OFFICER COMMANDING, BANGALORE.		ANICHAUKAR.—7 m. 0 f.
		1	PERIYAPATNA.—Cross the Cauvery, bridged. b. p. i.
		2	FRASERPET.—12 m. 5 f. p. i.

ROUTE No. 26 (5).

FROM MOLKALMURU TO KUDERU.

A very good gravelled road, practicable at all seasons.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 26 (5).
Civil	Military.		
DEPUTY COMMISSIONER, CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.		MOLKALMURU. <i>p. t.</i>
COLLECTOR OF BELLARY, BELLARY.		1 7m. 0f.	RAYADRUG —7 m. 0f. <i>p. t.</i>
COLLECTOR OF ANANTAPORE.		2 23m. 0f.	GUNDLAPALLI.—16 m. 0f. Cross the Hagari River, un- bridged.
		3 48m. 0f.	KUDERU.—25 m. 0f. Cross the Penner River unbridged and un- fordable when in flood.

ROUTE NO. 27.

FROM DHARAPURAM TO THADAGOLE.

Authority and date.—General Officer Commanding 9th Division, Jan. 1919.

Epitome.—Direction North-North-East. The road is metalled as far as Solappadi and practicable at all seasons. Thence to Denkanikota it is a mere foot path; beyond that station to Malur it is partially metalled and bridged throughout and practicable at all seasons; shaded most of the distance. The remainder of the road is made and practicable for carts at all seasons. Total distance $209\frac{1}{2}$ m., 20 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	DHARAPURAM.— <i>Vide</i> Route No. 15, stage <i>b. p. t.</i> No. 2
		1	OOTHIIYUR.—12m. 0f. Metalled road, fit (180). for motors. Country open and cultivated. 2m. Tehipatti (300). 3 m. Nochipalayam (350). 3 m. Uppar R., bridged. $9\frac{3}{4}$ m. stream, unbridged, fordable. A small village. <i>Camping-ground.</i> —Nil. <i>Water.</i> —From stream, $9\frac{1}{2}$ m. distant. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing in rains only. <i>Supplies.</i> —Nil.
		12m. 0f.	
		2	KANGAYAM.—8m. 3f. Road fit for motors. <i>b. p. t.</i> Country cultivated, <i>Vide</i> Route No. 14, stage No. 15.
		20m. 3f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			4m. Chinna Kaduyar. $4\frac{1}{4}$ m. stream, unbridged, fordable.
		3	
		32m. 7f.	CHENIMALAI.—12m. 4f. Metalled road, fit for motors. Country open and cultivated. At 9 m. 3 small villages W. and 1 E. of road. 11 m. Kurmagulivasu (45). Cross the Noyil R., bridged. A large village. <i>Camping-ground</i> —4 acres, S.-W. of village. <i>Water</i> .—From wells, for 3,000 men and 1,000 animals. <i>Fuel</i> .—100 cart loads. <i>Fodder</i> .—Grazing in Forest Reserve, 1,000 acres close by, for 1,000 animals. <i>Supplies</i> .—Grain for 500 men and 500 animals for 1 week. Oxen 30; sheep 100; goats, 100. Vegetables 80 sacks.
		4	PERUNDURI.—8m. 0 $\frac{3}{4}$ f. Road metalled, fit for motors. Country cultivated. <i>Vide</i>
		40m. 7 $\frac{3}{4}$ f.	Route No. 13. stage No. 15. 4 m. Ingur (3,579).
		5	SITODU —9m. 4f —Metalled road, fit for motors. Country, as before. $4\frac{1}{2}$ m. No. 18 crosses here. Naan <i>Camping-ground</i> .—2.50 acres, W. of village. <i>Water</i> .—From 2 wells, for 200 men and 150 animals.
		50m. 3 $\frac{3}{4}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Fuel</i>.—Scarce. <i>Fodder</i>.—Grazing: 20 acres close by, for 200 animals. <i>Supplies</i>.—Grain for 300 men and 150 animals for 1 week. Oxen 30; sheep 50; goats <i>nil</i>. Vegetables: brinjals only.</p>
		6	<p>BHAVANI.—4m. 1f. Metalled road, fit for b.p.t. (3,000). Country open and cultivated. A large village near the Bhavani R. Headquarters of a sub-district. <i>Camping-ground</i>.—No selected site. <i>Water</i>.—Bhavani R. at 4 m. on this stage. <i>Fuel</i>.—500 cartloads. <i>Fodder</i>.—Grazing <i>nil</i>. <i>Supplies</i>.—Grain for 1,000 men and 400 animals for 3 days. Oxen 50; sheep 150; goats 70. Country vegetables obtainable.</p>
		54m. 4 $\frac{3}{4}$ f.	
		7	<p>NERINJIPETTAI.—16m. 2f. Metalled road, (1,108). fit for motors, in fairly good order. Country open and cultivated. 8$\frac{1}{2}$ m. Kesavimanglam (360). 11$\frac{1}{2}$ m. Singempatti (—). 13$\frac{1}{2}$ m. Palavalakaludi (123) and Ammapet (1,200). 15m. Kombur (30). Cross 5 streams, usually fordable; boats are available at all. A large village near the Bhavani R. Route No. 17 can be joined at Pulampatti, on opposite side of river. <i>Camping-ground</i>.—231' \times 264' and 442' \times 132', S. of village, and 132' \times 165' near by.</p>
		70m. 6 $\frac{1}{4}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	8	<p><i>Water.</i>—From Cauvery R., unlimited supply. <i>Fuel.</i>—50 cartloads. <i>Fodder.</i>—Grazing in Forest Reserve 1 m. distant; for 500 animals. <i>Supplies.</i>—Grain for 500 men and 500 animals for 3 days. Oxen 20; sheep 300; goats 100. Vegetables: 50 baskets of brinjals.</p>
		83m.5 $\frac{3}{4}$ f.	<p>SAMBALLY.—12m. 7f. Metalled road, fit p. (750). for motors, but not in good repair. Road through cultivation. Cross several streams; boats available in flood time. 1$\frac{1}{2}$ m. Chinnapalam (150). 2$\frac{1}{2}$ m. Phukanampatti (450). 9$\frac{1}{2}$ Methur (250). A small village. <i>Camping-ground.</i>—15 acres, in old fort. <i>Water.</i>—From Cauvery river, unlimited supply. <i>Fuel.</i>—10 cartloads. <i>Fodder.</i>—Grazing nil. <i>Supplies.</i>—Grain for 500 men and 500 animals for 5 days. Oxen 50; sheep 100; goats 20. Vegetables: 10 baskets of brinjals.</p>
COLLECTOR OF SALEM, SALEM.	G. O. C., BANGALORE.	9	<p>SOLAPPADI.—5m. 0f. Road and country as before. <i>Vide</i> Route No. 19, stage No. 16.</p>
		88m.5 $\frac{3}{4}$ f.	
		10	<p>SIDUMANHALLI.—8m. 0f. Footpath (unfit for carts) leads from Sidumanhali in an easterly direction to Pennagaram. Distance approximate. Country jungly.</p>
		93m.5 $\frac{3}{4}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, BANGALORE.			<p>3 m. Mancharahalli. Cross 1 stream, unbridged, fordable. <i>Camping-ground</i>.—50 acres, W. of village. <i>Water</i>.—From streams and wells, for 1,000 men and 1,000 animals. <i>Fuel</i>.—100 cartloads. <i>Fodder</i>.—Grazing for 1,000 cattle within 1 m. <i>Supplies</i>.—Grain, notice required. Oxen, 20; sheep, 50; goats, 50. Vegetables <i>nil</i>.</p>
		11	<p>ANCHILLI.—18m. 0f. Footpath through cultivated country, unfit for wheeled traffic. Cross 4 streams, fordable except for a short time in heavy rains. 2m. Gallruthu (50). 8m. Kodagaren (150). 10m. Bellatir. 11m. Chickmanibi (30). 12m. Doda-manchi (50). 17m. Ukamasavampali (60c). A large village. <i>Camping-ground</i>.—18.50 acres, N. of village. <i>Water</i>.—Unlimited supply. <i>Fuel</i>.—100 cartloads. <i>Fodder</i>.—Grazing plentiful within 1m. <i>Supplies</i>.—Grain: <i>ragi</i> only, for 1,000 men for 1 week; gram for 100 horses for 1 week. Oxen 500; sheep 1,000; goats 4,000. Vegetables <i>nil</i>.</p>
		114m. 5 $\frac{3}{4}$ f	
		12	<p>DENKANIKOTTA.—16m. 0f. Road through Forest Reserve and cultivation to Kundukota, fit for wheeled transport from there on, fit for motors. 8m. Kundukota (550) 11m. Andevanapali (1,200). 14m. Naganur (380). A town.</p>
		130 m. 5 $\frac{3}{4}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, BANGALORE.			<p><i>Camping-ground.</i>—5 acres, S.-E. of town. <i>Water.</i>—From 2 tanks, for 2,000 men and 1,000 animals. <i>Fuel.</i>—20 tons. <i>Fodder.</i>—Grazing <i>nil</i>. <i>Supplies.</i>—Grain for 1,000 men and 500 animals for 2 days. Oxen 20; sheep 200; goats 200. <i>Vegetables nil.</i></p>
		13	<p>MATIGIRI.—11m. 5f. Metalled road; fit <i>p.t.</i> (3,600). for motors. Country open. Cross Sanadkumara R., bridged. Sm. Muthugassapalli (350). 10m. Nagon-dapalli (400). A Remount Depot, village. <i>Camping-ground.</i>—Nil. <i>Water.</i>—From 3 tanks, for 3,000 men and 1,000 animals. <i>Fuel.</i>—10 tons. <i>Fodder.</i>—Grazing <i>nil</i>. <i>Supplies.</i>—Grain for 500 men and 300 animals for 1 day. Oxen 10; sheep 100; goats 100. <i>Vegetables nil.</i></p>
		142m. 2½f.	
		14	<p>HOSUR.—4m. 3f. Road fit for motors. Country open. <i>Vide</i> Main <i>b.p.t.</i> Route No. IV, stage No. 17.</p>
		146 m. 5¾f.	
		15	<p>BAGALUR.—10m. 0f. Metalled road, fit for <i>p.</i> (1,699). motors. Country open and cultivated. Cross Chinnar R., bridged. A fair-sized village.</p>
		156 m. 5¾f.	

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	COLLECTOR OF SALEM, SALEM.		<p><i>Camping-ground.</i>—10 acres, S. of village. <i>Water.</i>—From 1 tank and 1 well, for 500 men and 300 horses. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing nil. <i>Supplies.</i>—Grain, 500 men and 300 horses for 2 days. Oxen nil; sheep 150; goats 100. <i>Vegetables</i> nil.</p>
		16	<p>MALUR RAILWAY—12m. Of. Road fit for Station. motors. Country open and cultivated. b.p.r. 6m. cross Kodihalla river. <i>Camping-ground.</i>—Nil. <i>Water.</i>—From tanks and wells, supply good except in dry season. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing within $\frac{1}{2}$ m. for 1,000 animals. <i>Supplies.</i>—Grain as required from Malur and Hosur. Oxen nil; sheep 150; goats 150. <i>Vegetables</i>: potatoes obtainable.</p>
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.	17	<p>VAKKALERI—9m. Of. Road fit for motors, through open and cultivated country. 1m. Tellalur. 4 m. Chickadatur. 5$\frac{1}{2}$m. Dodasivara. 6$\frac{1}{2}$m. Hengerihalli. A small town. <i>Camping-ground.</i>—234 acres, S.-E. of town. <i>Water.</i>—From tank and wells; scarce in dry weather. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing within $\frac{1}{2}$ m. for 500 animals.</p>
		168m. 5 $\frac{1}{2}$ f.	
		177m. 5 $\frac{1}{2}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Supplies.</i>—Ragi and gram in large quantities. Oxen 100; sheep 300; goats 150. Country vegetables obtainable.</p>
		18	<p>KOLAR—9m. 7f. Metalled road, in fair condition, fit for motors. Country open and cultivated. 6½m. Amimarahalli. 9m. stream, bridged. A large town. Headquarters of the district. Routes Nos. 37 and 43 cross here. Bowringpet railway station and post office are 11 m. distant.</p> <p><i>Camping-ground.</i>—Large ground N.-E. of town; and also on road E. of town.</p> <p><i>Water.</i>—From wells, and for animals, tank; good supply.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing nil, but grass obtainable with notice.</p> <p><i>Supplies.</i>—Of all kinds, unlimited with sufficient notice.</p>
		187 m. 4½f.	
		19	<p>SRINIVASPUR.—15m. 0f. Road fit for motors. Country open and cultivated.</p> <p>1½m. Kodikannur. 6m. Malasandra. 7m. Mudawadi. 8m. Locharupalli. 11½m. Yellavapalli. 12½m. Chaldigonpalli. 14m. Panasam-akalpalli. 14½m. Gorakali. Cross 4 streams, bridged. A small town.</p> <p><i>Camping-ground.</i>—4·2 acres, N.-E. of town.</p> <p><i>Water.</i>—From 4 wells; scanty supply.</p>
		262 m. 4½f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	G. O. C., BANGALORE.	20	<i>Fuel.</i> —20 cartloads. <i>Fodder.</i> —Grazing within 1m. for 100 animals. <i>Supplies.</i> —Grain obtainable. Oxen 5; sheep 10; goats 10. Vegetables <i>nil</i> . THADAGOLE. —6m. 4f. Metalled road, fit <i>b.</i> for motors. Country open and cultivated. 1½m Byrappapalli. 3m. Nettur. 4½m. Seigapalli. 6½m. Kaderalgador. Cross several <i>nalas</i> by culverts, all fordable. <i>Vide</i> Route No. 24, stage No. 27.
		209 m. 0½f.	

ROUTE No. 27 (1).

FROM BHAVANI TO SATYAMANGALAM.

Road good, is passable at all seasons of the year.

Direction.—West by North.

COLLECTOR OF COMBATORE; COMBATORE.	G. O. C., MADRAS DISTRICT, WEL- LINGTON.		BHAVANI <i>b.p.t.</i>
		1	ATTANL.—14m. 6f. A large village near the <i>p.</i> Bhavani River.
		14m. 6f.	
		2	SATYAMANGALAM.—18. m. 7½f. <i>Vide</i> Route <i>b.p.t.</i> No. 15, stage No. 8.
		33m. 5½f.	

ROUTE No. 27 (2).

FROM KOMARPALAYAM to SANKARIDRUG.

Road metalled and bridged; well shaded; practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27 (2).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM,	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KOMARAPALAYAM.—711 houses and 3 shops. Water from the Cauvery river, which is bridged. On the opposite side of it is Bhavani, where there are many good shops.
		1	SANKARIDRUG.—12m. 6f.
		12m. 6f.	<i>b.p.r.</i>

ROUTE No. 27 (3).

FROM BHAVANI to GERKIKANDI.

Cross numerous hill streams, unbridged. This is a mere track passing over the Barghur Hills, the hill portion of it being only fit for foot passengers and pack animals; the other portions are fit for carts in dry weather.

Direction.—North-North-West.

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	BHAVANI.— <i>b.p.t.</i>
		1	GERKIKANDI.—45m. 4 $\frac{3}{4}$ f.
		45m. 4 $\frac{3}{4}$ f	

ROUTE No. 27 (4).

FROM SAMBALLY TO KAVIERIPURAM.

Road good.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27 (4).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	SAMBALLY.
		1	KAVERIPURAM.—7m. 1f. p.
		7m. 1f.	

ROUTE No. 27 (5).

FROM IRUTHUKOTTA TO THALLY.

Road partially metalled, practicable at all seasons.

Direction.—North-West.

COLLECTOR OF SALEM; SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	IRUTHUKOTTA.
		1	DENKANIKOTA.—7m. 0f. p.
		7m. 0f.	
		2	THALLY.—11m. 4f. p.
		18m. 4f.	

ROUTE No. 27 (6).

FROM DENKANIKOTA TO KRISHNAGIRI.

Cross the Pennar river, unbridged. Road partially metalled and bridged; practicable at all seasons; shaded by good avenues. The river is seldom in flood, except during the rainy season.

Direction.—North-East-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27 (6).	
Civil.	Military.			
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		DENKANIKOTA.	
		1	<i>p.</i> KELAMANGALAM—7m. 0f.	
		7m. 0f. 2	RAYAKOTTA.—14m. 0f.	<i>Vide</i> Route No. 28(3), stage No. 4.
		21m. 0f. 3	KRISHNAGIRI.—17m. 0f.	<i>Vide</i> Main Route No. IV, stage No. 14.
		38m. 0f.	<i>b.p.</i>	

ROUTE No. 27 (7).

FROM THALLY TO HOSUR.

Road partially metalled and bridged, practicable at all seasons.

Direction.—North-East.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		THALLY.	
		1	<i>p.</i>	
		16m. 2f.	HOSUR.—16m. 2f.	
			<i>b.p.t.</i>	

ROUTE No. 27 (8).
FROM HOSUR REMOUNT DEPOT, MATIGIRI, TO
BANGALORE.

Direction—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27 (8).	
Civil.	Military.			
COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.		MATIGIRI.	
		I	<i>p.</i>	
DY. COMR. OF MYSORE DISTRICT.	G. O. C., BANGALORE.	10m. 2f.	ANEKAL.—10m. 2f. Country mostly uncultivated, except near Matigiri.	
		2	BANNERGATTA.—11m. 4f.	
		21m. 6f.		
		3	BANGALORE.—12m. 4f.	
		34m. 2f.	<i>b.p.t.r.</i>	
			Vide Main Route No. IV, stage No. 19.	

(ROUTE No. 27 (9).

FROM HOSUR REMOUNT DEPOT, MATIGIRI, TO
HEBBAGOD.

Direction.—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27 (9).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		MATIGIRI.— <i>p.t.</i>
DY. COMR. OF MYSORE DISTRICT.	G. O. C. BANGALORE.	1 15m. 2f.	HEBBAGOD.—15m. 2f. <i>b.</i>

ROUTE No. 27 (10).

FROM BAGALUR TO BERIGAI.

Direction.—East.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	BAGALUR. <i>p.</i>
		1 7m. 0f.	BERIGAI.—7m. 0f.

ROUTE No. 27 (11).

FROM MALUR RAILWAY STATION TO HOSKOTE.

A made road, practicable for carts at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27 (11).
Civil.	Military.		
DEPY. COMR. OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.	1	MALUR RAILWAY STATION.— <i>b.p.t.r.</i>
DEPY. COMR. OF MYSORE DISTRICT.		1 13m. 0f.	HOSKOTE.—13m. 0f. <i>b.p.</i>

ROUTE NO. 27 (12).

FROM MALUR RAILWAY STATION TO NARASAPURA.

A made road, practicable at all seasons.

Direction.—North-North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 27 (12).
Civil.	Military.		
DEPT. COMR. OF KOLAR. KOLAR.	G. O. C., BANGALORE.	..	MALUR RAILWAY STATION.— <i>b.p.t.r.</i>
		1	NARASAPURA.—12m. 4f. <i>b.</i>
		12m. 4f.	

ROUTE No. 27 (13).

FROM KAMASMUDRAM RAILWAY STATION TO KOLAR.

A made road, practicable for carts at all seasons.

Direction.—East-North-West.

DEPUTY COMMISSIONER OF KOLAR, KOLAR.	G. O. C., BANGALORE.	..	KAMASMUDRAM Railway Station.— <i>p.r.</i>
		1	BOWRINGPET.—17m. 0f. <i>p.t.r.</i>
		17m. 0f.	
		2	KOLAR.—11m. 1f. <i>b.p.t.</i>
		28m. 1f.	The Gold Fields.

ROUTE NO. 28.

FROM DINDIGUL TO PALMANER.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—General direction.—North-north-east. As far as Arava-Kurchi, the road is metalled and all minor streams are bridged; but floods on the larger streams are frequent, and in the rains would render the use of this inadvisable. The hill near Andipati is about a mile in length, but of easy gradient. Thence to Krishnagiri, it is metalled but unbridged; from this place to Kuppam railway station, it is gravelled and bridged; the remainder of the road is metalled and bridged, except a few streams between Venkatagirikota and Baireddipalele. From Arava-Kurchi to Palmaner, the road is practicable at all seasons. Total distance 249½ miles—23 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28.
Civil.	Military.		
COLLECTOR OF MADURA, MADURA.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	DINDIGUL— <i>Vide</i> Route No. 6, stage No. 14. <i>b.p.t.r.</i>
		12m. 2f.	VADASANDUR.—12m. 2f. Metalled road, fit (8,057 including for motors. Country hamlets). cultivated. 6 m. Thadecombor (5,745). Cross and recross Kodavanar R., unbridged. A small town. <i>Camping-ground.</i> —On dry lands, when uncultivated, E. of village. <i>Water.</i> —From river, which is 80 yds. wide; for 1,000 men and 500 animals. <i>Fuel and Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 1,000 men and 500 cattle for 2 days. Oxen 50; sheep 100; goats 100. Vegetables <i>nil</i> .

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	ANDIPATTI.—11m. 1f. Gravelled road, fit (Fort 400). for motors. Country open and cultivated.
		23m. 3f.	3 m. Minukkampatti. 5½ m. Jobrapatt. 6½ m. Kalvarpatti (4,429). The village is some distance beyond.
		3	<i>Camping-ground.</i> —High and spacious, E of road and S.-W. of village, about 32 acres. <i>Water.</i> —From a small <i>nala</i> and 7 wells, for 1,000 men and 500 animals. <i>Fuel.</i> —Obtainable with notice. <i>Fodder.</i> —Grazing, 200 acres, within 2 m., for 1,000 animals. <i>Supplies.</i> —Grain, notice required. Oxen 50; sheep 200; goats 200. Vegetables <i>nil</i> .
		30m. 0½f.	ARAVA-KURCHI.—6m. 5½f. Metalled road; p (5,016). fit for all transport. Country as before, 1½ m. Virunsettiyur (500). 6 m. cross Nankanji R., unbridged, 300' wide, fordable except in flood. A town N.
			<i>Camping-ground.</i> —½ m. N. and S. of town. <i>Water.</i> —From river, for 2,000 men and 500 animals. <i>Fuel.</i> —Cut, available. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 1,000 men and 500 animals. Oxen <i>nil</i> ; sheep 100; goats 100. Vegetables in small quantities.
		4	CHINNA DHARAPURAM.—8m. 0f. Road p. and country as before.
		38m. 0½f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28.
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			2 m. Amravati R., 200 yds., fordable, except in flood, 3 boats for 30 men. 2 m. Rajapuram (1,000). Cross the Arkavali <i>nala</i> . <i>Vide</i> Route No. 16, stage No. 5.
		5	TENALLI.—7 m. 1f. Road and country as before.
		45m. 1½f.	4 m. Gudalur (1,000). Route No. 14 is joined here. <i>Camping-ground</i> .—W. of village. <i>Water</i> .—From 5 wells, for 1,000 men and 300 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 1,000 animals within 2 m. <i>Supplies</i> .—Grain for 1,000 men and 300 animals for 3 days. Oxen <i>nil</i> ; sheep 100; goats 100. Vegetables in fair quantities.
		6	VELLAI KOVII.—8m. 0f. Metalled road, fit for motors. Country open and cultivated.
		53m. 1½f.	4 m. Kurukhatti. <i>Vide</i> Route No. 14, stage No. 14.
		7	MUTHUR.—7m. 5½f. Metalled road, fit for motors. Country cultivated.
		60m. 7f.	3 m. Mandapuram. 4 m. Mettupalayam. 5 m. Anjampalayam. 6 m. Komarandi Chavari. A large village. <i>Camping-ground</i> .—Nil. <i>Water</i> .—From 4 wells, for 300 men and 100 animals. <i>Fuel and Fodder</i> .—Nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28.	
Civil.	Military.			
COLLECTOR OF COIMBATORE; COIMBATORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	8	ERODE.—22m. 3f. <i>b.p.t.p.</i>	Road fit for motors. Country open and cultivated. Cross Noyel R., unbridged, fordable. <i>Vide</i> Route No. 13, stages Nos. 16 and 18. Cross Cauvery R., bridged.
		83m 2f		
		9	SANKARIDRUG.— 21m 0f <i>b.p.r.</i>	
COLLECTOR OF SALEM.		104m. 2f		
		10	CHINNAPPAMPATTI.—14m. 4f. Metalled (3,503). road, fit for motors. Country open and cultivated.	
		118m. 6f.	7 m Kongonapuram (2,282). 7½ m. Kotahopalli South (2,581). Cross the Sarabanga R., bridged. The village forms parts of two villages; viz. (1) Vellalapuram and (2) Pappfambady. <i>Camping-ground.</i> —about 3 acres N.-E. of village, and dry land close by. <i>Water.</i> —From river, supply plentiful. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —Grazing for a large number of animals close by. <i>Supplies.</i> —Grain at weekly (Sunday) market in fairly large quantities. Oxen 419; sheep 2,477; goats 940. Vegetables available.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 23.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	11	<p>MOTU.—10m. 0f. Metalled road, fit for motors. (1,487). Country open and cultivated. 3½ m. Thrvarnngalam (3,609). Cross 3 streams, bridged. A small town.</p> <p><i>Camping-ground</i>.—In neighbourhood, on river bank.</p> <p><i>Water</i>.—From a tank and stream, for 500 men and 200 animals.</p> <p><i>Fuel</i>.—Small quantities only.</p> <p><i>Grazing</i>.—75 acres for 200 animals.</p> <p><i>Supplies</i>.—Grain for 500 men and 200 animals for 3 days. Oxen 15; sheep 200; goats 200. Vegetable 50 lbs.</p>
		128m. 6f.	
		12	<p>PUJARIPATTI.—8m. 2f. Metalled road, fit (642). for motors. Country open and cultivated.</p> <p>1 m. Kuthanettapatti (2,630). Cross Sarabanga R., bridged, and a <i>nala</i>, bridged.</p> <p>Route No. 19 is crossed in this stage at Omalur.</p> <p><i>Camping-ground</i>.—2 m. S. of village and ½ m. to left of road, in a partially cleared jungly spot, 20 acres.</p> <p><i>Water</i>.—From a stream, scarce in dry weather; for 500 men and 500 animals in a good season.</p> <p><i>Fuel</i>.—Obtainable from Forest Reserve.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>.</p> <p><i>Supplies</i>.—Grain for 500 men and 500 animals for 1 day. Oxen 5; sheep 100; goats 100. Vegetables 50 lbs.</p>
		137m. 0f.	

ROUTE NO. 28.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		13	TOPUR.—8m. 3f. Metalled road, fit for motors. (1,382). Country consists of high hills covered with low jungle. 1½ m. Omalur. 8 m. Tobur R., bridged.
		145m. 3f.	Camping-ground.—9.52 acres, W. of village. Water.—From river, unlimited supply. Fuel.—From Forest Reserve, close by. Fodder.—Grazing, 36.37 acres, within ½ m., for 50 animals. Supplies.—Grain: very small quantity only obtainable. Oxen nil; sheep 5; goats 2. Vegetables: brinjals only.
		14	ADAMANKOTTA.—11m. 7f. Metalled road, b.p. (3,168). fit for motors. Country wooded and jungly, with cultivation at intervals. Road ascends for about 4 m. and then descends. The Ghat presents no difficulties; it consists of 3 small hills. 7 m. Dombaraganpatti. 9 m. Pagulakhi. 9½ m. Gangalapathi. 10½ m. Nalampatti. Camping-ground.—15 acres, on a stony plain, but dry and clean, where the Bangalore road and this road diverge. Water.—Unlimited in rains, but scarce in dry season. Fuel.—Nil. Fodder.—Grazing; 220 acres, close by, for 5,000 animals. Supplies.—Grain in very small quantities. Oxen nil; sheep 50; goats 20. Vegetables brinjals only.
		157m. 2f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28.
Civil.	Milit- tary.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		15	DHARMAPURI.—5m. Of. Metalled road, fit b.p.t. for motors. Country cultivated and open.
		162m. 2f.	2½ m. Thokanputti Thandangan. A large town. Camping-ground.—Near road, S. of town. Water.—Unlimited in rains, scarce in dry season. Fuel.—Nil. Fodder.—Grazing: 162 acres, close by, for 500 animals. Supplies.—Grain nil. Oxen nil; sheep 50; goats 20. Vegetables: brinjals only.
		16	KARIMANGALAM.—12m. Of. Metalled road, p. (Union village). fit for wheeled trans- port, but not motors.
		174m. 2f.	Country cultivated. 1 m. Halaidharain- puri. Cross Poolahalli R. unbridged; unfordable in floods, which however subside quickly. Camping-ground.—½ m. sq., S.-W. of village, and 10 acres near by. Water.—From a tank, for 1,000 men and 500 animals. Fuel and Fodder.—Nil. Supplies.—Grain for 1,000 men and 500 animals for 1 week. Oxen 50; sheep 100; goats 100. Vegetables nil.
		17	KAVERIPATNAM.—8m. Of. Metalled road, p. (6,668). fit for motors.
		182m. 2f.	Country cultivated. 3m Chappanipatti (300). 3½ m. Bomana Samu- dram (400).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.			<p>5 m. Paggur (1,200). A small town. <i>Camping-ground</i>.—10 acres, close to town. <i>Water</i>.—From stream and wells, unlimited supply in rains. <i>Fuel</i>.—260 maunds. <i>Fodder</i>.—Grazing: 25 acres, near, for 150 animals. <i>Supplies</i>.—Grain for 500 men and 100 animals for 4 days (more with notice) Oxen 10; sheep 25; goats 25. Vegetables obtainable.</p>
		18	
		189m. 2f.	<p>KR. ISHNAGIRI.—7m. 0f. Metalled road; fit for motors. Country open and cultivated. <i>Vide</i> Main Route No. IV, stage No. 14. Cross the Pennar R., bridged. 2 m. Thumapuram (1,000). 3 m. Nadamuthur (300). 5 m. Avathanapulli (300).</p>
		19	
		196 m. 2 f.	<p>MAHARAJAGADA.—7 m. 0 f. Metalled road; fit for motors. Country open and cultivated. A fairly large village. Cross 3 streams, bridged. 3 m. Bojaigounden Dodur (200). 5 m. Byappa Chettypudur (150). <i>Camping-ground</i>.—4 acres, W. of village; and 151 acres close by. <i>Water</i>.—From wells and tanks, for 200 men and 100 animals. <i>Fuel</i>.—1,000 maunds. <i>Fodder</i>.—Grazing: 25 acres, close by, for 300 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	20	<p><i>Supplies.</i>—Grain for 100 men and 50 animals for 1 day. Oxen 2; sheep 10; goats 10. Vegetables obtainable.</p> <p>KANDIKUPPAM.—7 m. 0 f. Metalled road, fit for motors. Country open and cultivated. A fair-sized village. 4½ m. Varathanapatti (1,000). 5½ m. Palepalli (250).</p> <p><i>Camping-ground.</i>—10 acres, on dry land, E. of village.</p> <p><i>Water.</i>—From 3 wells, for 250 men and 100 animals.</p> <p><i>Fuel.</i>—100 maunds.</p> <p><i>Fodder.</i>—Grazing: 25 acres, 2 m. distant, for 100 animals.</p> <p><i>Supplies.</i>—Grain for 100 men and 50 animals for 1 day. Oxen 2; sheep 10; goats 10. Vegetables obtainable.</p>
COLLECTOR OF CHITTOOR, CHITTOOR.		21 224 m. 2 f.	<p>VENKATA- 21 m. 0 f. Metalled road, fit for motors. Country jungly.</p> <p>GIRIKOTA.— p.t. (956).</p> <p>A large place. Route No. 37 crosses here. 1 m. Kungundi Kuppam (4,487). 10 m. Arimuttavapalli (58). 16 m. Cheldiganipalli (329).</p> <p><i>Camping-ground.</i>—1 m. S.-E. of Venkatagirikota, on the Naykaneri road, but no water supply near at hand.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—From Tank $\frac{1}{2}$ m. distant; when full, sufficient for 500 men and 500 animals</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing: 40 acres, 1 m. distant, for 400 animals.</p> <p><i>Supplies</i>.—Grain (at Thursday market) for 500 men only. Oxen 25; sheep 100; goats 100. Vegetables <i>nil</i>.</p>
		22	<p>BAIREDDIPALLE.—12 m. 7f. Metalled road, fit for all transport. Country alternately cultivated and jungle. A large village. 2 m. Nerinpalli (404). 8 m. Kaigal R., 120' bridged. $8\frac{1}{2}$ m. Kaigallu (58')</p> <p><i>Camping-ground</i>.—10 acres, in dry tank.</p> <p><i>Water</i>.—From 1 tank and 1 well for 300 men.</p> <p><i>Fuel</i>.—Cut, 6 or 7 cart loads daily.</p> <p><i>Fodder</i>.—Grazing: 200 acres, 3 m. distant.</p> <p><i>Supplies</i>.—Grain for 100 men and 100 animals for 3 days. Oxen <i>nil</i>; sheep 20; goats 20. Vegetables <i>nil</i>.</p>
		237 m. 1 f.	
		23	<p>PALMANER.—12 m. 1f. Metalled road, fit for motors. Country partly cultivated, partly jungle. <i>Vide</i> Route No. 23, stage No. 14. 6m Kolamasanapalli (1,200). $8\frac{1}{2}$ m. Moram (700). $9\frac{3}{4}$ m. cross Kowdanuya R., bridged, 240' wide, fordable except in flood.</p>
		249 m. 2 f.	

ROUTE No. 28 (1).

FROM ARAVA-KURCHI TO KANIVADI.

Neither metalled nor bridged, but practicable for carts at all seasons, the soil throughout being gravelley and hard.

Direction.—West-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28 (1).
Civil.	Military.		
COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		ARAVA-KHURCHI.
		1	<i>p.</i>
		9 m. 1 f.	KANIVADI.—9 m. 1 f.

ROUTE No. 28 (2).

FROM ARAVA-KURCHI TO KARUR.

Road metalled and all minor streams bridged; floods on the large streams are frequent, and in the rains would render the use of this road inadvisable.

Direction.—North-East.

COLLECTOR OF COIMBATORE, COIMBATORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		ARAVA-KURCHI.
		1	<i>p.</i>
		10 m. 1½ f.	PUTAMBUR 10 m. 1½ f. CHATTRAM.
		2	Water deficient and bad; camping-ground high, E. of road, 1 m. distant. Forage plentiful. The Nankanji is crossed at 2 m. 5 f. and the Kodavanar at 6 m. 5 f., both unbridged.
		18 m. 2¼ f.	KARUR.—8 m. 0¾ f. Cross the Amaravati R., unbridged. <i>b.p.t.r.</i>

ROUTE No. 28 (3).
FROM ADAMAN KOTTA TO HOSUR.

Direction.—North-West by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28 (3).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			ADAMAKOTTA.— <i>b. p.</i>
		1	SOGATUR.—5 m. 4 f. A small village. Camp- ing-ground to N. and S. Water from a stream and wells. Supplies as above. Road fair.
		5 m. 4 f.	
		2	PALAKOD.—12 0 f. m. A large village, with a <i>b. p.</i> fort. Good camp- ing-ground on both sides. Water on N. from a stream and wells, on S. from a tank. Road good.
		17 m. 4 f.	
		3	MAHENDRA-8 m. 1 f. A small hamlet. Sup- MANGALAM. plies on previous notice. Water from wells and a stream. Country open and undulating. Road good.
		25 m. 5 f.	
		4	RAYAKOTTA.—8 m. 2 f. A large town and <i>b. p.</i> hill fort. Extensive camping-ground N. of fort. Water from wells and tanks. Country hilly and jungly for the last 6 m. Cross a hill.
		33 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28 (3).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	5	UDANAHALLI.—9 m. 4 f. A small village. Supplies on previous notice from Kalamangalam, 5 m. distant, where a market is held on Sundays. Good camping-ground to N., sloping to a tank from which (and a stream) good and abundant water can be had; camping-ground also to S.-E.; country open and undulating.
		43 m 3 f.	
		6	
		55 m. 4 f.	HOSUR.—12 m. 1 f. <i>Vide</i> Main Route No. IV, stage No. 17. <i>b. p. t.</i>

ROUTE No. 28 (4).

FROM SOGATUR TO PAPPARAPPATTI.

Partially metalled, practicable at all seasons.

Direction.—North-North-West.

COLLECTOR OF SALEM, SALEM.	G. O. C., MADRAS DISTRICT, WELLINGTON.		SOGATUR.
		1	PAPPARAPPATTI—6 m. 0 f.
		6 m. 0 f.	

ROUTE No. 28 (5).

FROM PENNAGARAM TO KARIMANGALAM.

Partially metalled, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage. and total distance.	ROUTE NO. 28. (5.)
Civil.	Mili- tary.		
COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		PENNAGARAM. <i>p.</i>
		1	PALAKOD.—18 m. 0 f. <i>b. p.</i>
		18 m. 0 f.	
		2	KARIMANGALAM.—8 m. 2 f. <i>p.</i>
		26 m 2 f.	

ROUTE No. 28 (6).

FROM NEAR PALAKOD TO MARANDAHALLY.

Bridged and partially metalled, practicable at all seasons.

Direction.—West.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		NEAR PALAKOD. <i>b. p.</i>
		1	MARANDAHALLY.—10 m 0 f.— <i>p.</i>
		10 m 0 f	

ROUTE No. 28 (7).

FROM DHARMAPURI TO TIRUPATUR.

Metalled and well shaded, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28 (7.)	
Civil.	Military.			
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			DHARMAPURI. <i>p b. t.</i>	
		1	IRUMATTUR. <i>p.</i> Camping ground on a waste field, near a grove of trees, 100 yds. from river, also on both banks of river which is 400 yds. wide; good running water.	
		2	MATUR.—11 m. 4 f. <i>b.</i> Road good and shaded for 8 m., then open.	
		3	TIRUPATUR.—14 m. 2 f. <i>p. t. r.</i> <i>Vide</i> Route No 6, stage No. 31. Road good, undulating and well shaded; several paved channels cross it; country undulating, covered with palmyra trees, soil light red, cultivation in the hollows. Cross the Pennar R., unbridged.	

ROUTE No. 28 (8).

FROM DUNDUKARAMPATTI TO KAKANGARI RAIL-
WAY STATION.

A gravelled road as far as Kaveripatnam, thence metalled,
practicable at all seasons.

Direction.—North-East by East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 28(8).
Civil.	Mili- tary.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		DUNDUKARAMPATTI.—9 m. 2 f.
		1	KAVIRIPATNAM. P.
		9 m. 2 f.	
		2	KAKANGARAI.—9 m. 0 f.
		18 m. 2 f.	
		3	KAKANGARAI RAILWAY STATION.—3 m. 0 f.
		21 m. 2 f.	

Route No. 29.

FROM LAKKIDI TO PONANI.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

38½ miles.

3 stages.

Epitome.—This road is metalled throughout and bridged, with the exception of two rivers—the Patambi and the Ponani, which are provided with ferries.

Direction:—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 29.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	..	LAKKIDI.— <i>Vide</i> Route No. 11, stage No. 19, <i>b. p. r.</i>
		1 8 m. 0 f.	<p>VANIAMCOLUM.—8 m. 0 f. Metalled road; fit for motors. Country open and cultivated. Large village and bazaar; big market every Thursday. 3 m. Palapuram (4,204). 5 m. Areujurthikumuri (3,736). 6 m. Kannivurbaram (1,183). 6½ m. Thrikkangod (2,626). Cross 2 streams, bridged.</p> <p><i>Camping-ground.</i>—½ sq. m., E. of village.</p> <p><i>Water.</i>—From 3 wells and 2 tanks, for 1,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—100 cart-loads.</p> <p><i>Fodder.</i>—Grazing; 100 acres, 1 m.; for 1,000 animals.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 1,000 animals. Oxen 100; sheep <i>nil</i>; goats 50. Vegetables for 1,000 men.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 29.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	2	TIRTALLA.—14 m. 4f. Metalled road, fit for motors. Country, (1,842). paddy fields.
		22 m. 4f.	Vide Route No. 22, stage No. 2. 10½ m. Patambi Railway Station, where Route No. 22 joins. Just beyond road crosses Ponani R., unbridged; ferry kept here.
		3	14 m. pass Anrani (4,054).
		38 m. 4f.	PONANI.—16 m. 0 f. Gravelled road, fit for motors. Country cultivated.
			Vide Route No. 2, Stage No. 28. 1 m. Mezhabathur (1,420). 2 m. Pattihari (813). 3 m. Mala (553). 4 m. Angadi (565). 6 m. Kumaranellur (1,036). 8 m. Vathomkuiam (357). 9 m. Kashipalli (969). 10 m. Edapal (702). 12 m. Isuiamangaiam (576). 14 m. Ishwathiruthi (973).

ROUTE No. 29 (1).

FROM EDAPAL TO BETULPUDIANGADI.

Road metalled; practicable at all seasons.

General Direction.—North.

COLLECTOR OF MALABAR, CALCUT.	G. O. C., MADRAS DISTRICT, WELLINGTON.	EDAPAL.	
		p.	
		1	KOTIPURAM RAIL-5 m. 4f. Cross the Kotipuram river, unbridged.
		5 m 4f	r.
		2	BETULPUDI: 7 m. 4f. Cross the Ponani R.; unbridged.
		13 m. 0 f.	ANGADI

ROUTE No. 30.

FROM PALGHAT TO KONDOTTI.

Authortiy and date.—General Officer Commanding 9th Division, Jan. 1919.

Epitome.—The road is metalled and good at all seasons, ferries being established at all unbridged rivers. Total distance 72½ m.—6 stages.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 30.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUTTA.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	1	<p>PALGHAT.—<i>Vide</i> Route No. 11, stage No 18. <i>b., p., t. r.</i></p> <p>TOPANNAD.—13 m. 0 f. Metalled road, fit for motors. Country jungle, with cultivation at intervals. A large village. 1 m. Kadakantharu. 2 m. Kavalpada (1,690). 3 m. Puduparujam (4,061). 8 m. Mundazi (6,073). 10 m. Ezhakal (2,980). 11 m. Kangikulam (490). 10½ m. cross Paliampalli stream, bridged. Cross several streams, all bridged. <i>Camping-ground.</i>—13·51 acres in village, and 30 acres close by. <i>Water.</i>—From 8 wells and 2 tanks, for 500 men and 500 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing: 50 acres; ½ m. distant, for 500 animals. <i>Supplies.</i>—Grain: rice only, for 1,000 men and 500 animals. Oxen 20; sheep <i>nil</i>; goats 40. Vegetables <i>nil</i>.</p>
		13 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF MALABAR, CALICUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	2	ROUTE NO. 30.
		25 m. 7 f.	<p>KUMARAM—12 m. 7 f. Metalled road, fit for motors. Country open and cultivated.</p> <p>BATHUR (1,940)</p> <p>Village and bazaar. 4 m. Karimba (2,749). 7½ m. Karakur (2,966). 7 m. Thashambara (1,303). 7½ m. Trikalur (635). 9½ m. Viyya kurssi (1,183). 10½ m. Arakurssi (3,735). 12½ m. Perimbatori (1,575). Cross 4 streams, bridged.</p> <p>Camping-ground.—50 acres, S.-E. of village, and extra ground as required.</p> <p>Water.—Unlimited supply, open stream.</p> <p>Fuel.—Plentiful.</p> <p>Fodder.—Grazing: ½ m. distant, for 1,000 animals.</p> <p>Supplies.—(From Mannarghat (2 m.) rice as required. Oxen 5; sheep nil; goats 5. Vegetables from weekly market.</p>
		3	
		34 m. 7 f.	<p>NATIKAL.—9 m. 0 f. Metalled road, fit for motors. Country open and cultivated.</p> <p>Road to Allanallur, Meletur and Pandikal branches off at 60½ m. from Calicut, and one to Cherpalecheri on Route No. 11 branches off at 58 m. Perimbatori (1,575). Kumaram Dathur (1,940). Arujoor (1,962). Vattasseripuram (1,197). 2 and 4 m. cross 2 streams, bridged. 6 m. cross stream, bridged, and Kundi-purca river, bridged.</p> <p>Camping-ground.—60 acres, N. of village and E. of bungalow; additional space available.</p> <p>Water.—From Tanks and wells, for 500 men and 600 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 30.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Fuel.</i>—Plentiful.</p> <p><i>Fodder.</i>—Grazing: 1,000 acres, $\frac{3}{4}$ m. distant, for 2,000 animals.</p> <p><i>Supplies.</i>—Paddy only, as much as required. Oxen 10 per day. Sheep <i>nil</i>; goats 1 per lay. Vegetables from weekly market 4 m. distant.</p>
		4	ANGADIPURAM.—10 m. 0 f. Metalled road, <i>b. p.</i> fit for motors. Country open and cultivated. <i>Vide</i> Route No. 11 and Route No. 22, stage No. 4.
		44m. 7f.	1 m. Tachingenatam (1,304). 3 m. Kondiparamba (443). 4 m. Punthanam (504). 5 m. Parambar (446). 6½ m. Pattikkad (1,248). 7 m. Pallikathi (847). 8 m. Mullir Kurussi (1,365). 8½ m. Valem-bur (1,284). 9 m. Manathi Mangalam (361). 9½ m. Kakutai (2,174). 10 m. Penintalmanna (3,733). Cross Aravampuram river, fordable, boats available.
		5	MALAPPURAM.—13 m. 4 f. Metalled road, <i>b. p. t.</i> (10,202). fit for motors. Country open and cultivated at intervals. A detachment of British Infantry is stationed here; headquarters of Punitive Police. 10 m. cross Kiotilangadi river, bridged, fordable except in flood.
		58m. 3f.	<i>Camping-ground.</i> —3·66 acres, S.-E. of bazaar and N.-W. of barracks.

AUTHORITIES.

Civil.

Mili-
tary.No.
of
sage
and
total
distance.

ROUTE NO. 30.

COLLECTOR OF MALABAR,
CALCUT.G. O. C., MADRAS DISTRICT,
WELLINGTON.

6

72m. 3f.

Water.—From wells, for 500 men and, for ani-
mals, from river.*Fuel*.—Obtainable.*Fodder*.—Grazing : in rains only.*Supplies*.—Everything, except sheep, as requir-
ed, with notice.KONDOTTI.—14 m. 0f. Metalled road, fit for
motors. Country
b. p. open and cultivated.*Vide* Route No. 11, stage No. 24. Joins Route
No. 11 at 8 m. from Malappuram.

4 m. Milmore (4,511). 5 m. Pookottoor (1,888).

6 m. Vallavamburam (3,372). 9 m. Murayur
(3,873). 12 m. Nediysisippa (6,222).

ROUTE No. 30 (1).

FROM MANDUR TO CHERPALCHERI.

Road partially metalled and bridged, but is in bad order.

Direction.—West by North.

COLLECTOR OF MALABAR,
CALCUT.G. O. C., MADRAS DISTRICT,
WELLINGTON.

..

MANDUR.

1

19m. 4f.

CHERPALCHERI.—19 m. 4f.

b. p.

ROUTE No. 30 (2).

FROM MANNARGHAT TO PANDIKAD.

Road metalled and bridged, practicable at all seasons.

Directions.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 30 (2).
Civil.	Military.		
COLLECTOR OF MALABAR; CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	MANNARGHAT. <i>b. p.</i>
		1	ALANALUR.—11 <i>m. 0 f.</i>
		11 <i>m. 0 f.</i>	
		2	MANJER.—8 <i>m. 0 f.</i> <i>b. p. t.</i>
		19 <i>m. 0 f.</i>	
		3	PANDIKAD.—10 <i>m. 0 f.</i> <i>p.</i>
		29 <i>m. 0 f.</i>	

ROUTE No. 30 (3).

FROM MALAPPURAM TO CHALIAM.

Road is neither metalled nor bridged, and is practicable only in the dry season.

Direction.—West.

COLLECTOR OF MALABAR; CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	MALAPPURAM. <i>b. p. t.</i>	..
		1	CHALIAM.—27 <i>m. 1 f.</i>	Cross the Panampaya and Haddal rivers, unbridged.
		27 <i>m. 1 f.</i>		

ROUTE No. 31.

FROM MANNARGUDI TO CHITTOOR.

Authority and date.—General Officer Commanding, 9th Division, Jany. 1919.

Epitome.—Direction N. The road is metalled or gravelled (except for a few miles) up to about Kallari, thence metalled throughout. It is practicable at all seasons as far as Ulundurpet, for, although it is unbridged between Jayakondacholapuram and Viruduchalam, there is a ferry across the river. Thence to Peria Shivallay, it is impracticable in the rains. The remainder of the road is bridged, with the exception of 3 streams between Tirukoilur and Vellore.

Total distance 197 m. $0\frac{1}{2}$ f.—20 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31.
Civil.	Military.		
COLLECTOR OF TANJORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	MANNARGUDI.— <i>Vide</i> Route No. 7, stage No. 16.
		1	NIDAMANGALAM.—9 m. 0 f. Gravelled road, fit for all transport. Country cultivated.
		9m. 0 f.	<p>$\frac{1}{2}$ m. Pamanier R., 35 yds., fordable, brick bridge.</p> <p>3 m. <i>nala</i>, 15 yds., bridged brick. 9 m. Vadasakoniaval (1,134). 6 m. Pamanur (1,576). 8 m. Porappamanada (730). 8 m. Koraiyar river, 35 yds. brick bridge, fordable. Joins Route No. 14 here.</p> <p>Camping-ground.—6 acres, S. of town.</p> <p>Water.—From 2 tanks and 3 wells, scarce in summer.</p> <p>Fuel.—Cut; 20 cartloads.</p> <p>Fodder.—Nil.</p> <p>Supplies.—Grain for 5,000 men and 500 animals; Oxen 200; sheep 6; goats 400. Vegetables 2 cartloads.</p>

ROUTE NO. 31.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	VALANGAMAN.—9 m. 0 f. Road as before, p. (5,426). through wet cultivation. A town.
		18m. 0 f.	$\frac{1}{2}$ m. <i>nala</i> , 100 yds., brick bridge, boats available. 4 m. Alangudi (1,271). $5\frac{1}{2}$ m. <i>nala</i> , 100 yds., brick bridge, boats available. 8 m. <i>nāla</i> , 50 yds., brick bridge, boats available. <i>Camping-ground</i> .—W. of village. <i>Water</i> .—From a <i>nala</i> , 7 tanks and 35 wells for 300 men and 300 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 200 men and 50 animals for 5 days. Oxen 50; sheep 20; goats 20. Vegetables for 100 men for 1 day.
		3	KUMBAKŌNAM.—6 m. 0 f. Metalled road, b. p. t. r. fit for motors. Country open and cultivated.
		24m. 0 f.	<i>Vide</i> Route No. 8, stage No. 7. 1 m. Tilliambur (1,691). $1\frac{1}{2}$ m. Tipparajapuram (1,721). $3\frac{1}{4}$ m. Marudandanallur (1,128). $5\frac{1}{4}$ Karuppau (1,526). Cross 4 streams, bridged.
		4	MADANAKURCHI.—5 m. 4 f. Metalled road; unfit for motors; after 4th m., fit for wheeled transport throughout. Country open and cultivated. $\frac{7}{8}$ m. Asur (585). $1\frac{1}{2}$ m. Kilaparathai (120). $2\frac{1}{4}$ m. Kadichambadi (994).
		29m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31.
Civil.	Military.		
COLLECTOR OF TRICHNOPOLLY, TRICHNOPOLY. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>27½ m. Inamtilunallur (595). 3½ m. Devanigeri (1,778). 3½ m. Nirathanallur (1,707). Cross the Palavar and Manniar rivers and 1 channel all bridged.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—From channel, for 2,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—</p> <p><i>Fodder.</i>—</p> <p><i>Supplies.</i>— } Nil.</p>
		5	JAYANKONDACHOLA.—11 m. 0 f. Gravelled road, fit for all transport. Country as before <i>Vide</i> Route No. 9, stage No. 33.
		40m. 4f.	<p>1½ m. Karaikuridi (1,509). 3 m. Palur (2,779). 3½ m. <i>nala</i>, brick bridge. 5 m. Kodangudi (261). 5½ m. <i>nala</i>, fordable. 6 m. Anaikudam (632). 7½ m. Selar (760). 8 m. Ritarikudi (467). 9½ m. Kaluvanthondi (2,100).</p>
		6	RAJANDRAPATAM.—16 m. 0 f. Road and country as before.
		56m. 4f.	<p>A small village.</p> <p>1 m. Kilakudiyaruppur (2,836). 2 m. <i>nala</i>, 150', fordable. 3 m. Kallathur (2,414). 4 m. Thandalai (2,836). 6½ m. Kuvathur (2,211); <i>nala</i>, 66', fordable. 9 m. Andimadam (1,615). 12 m. Karukai (2,027). 13 m. Athukivinchinchi (2,027). 13 m. <i>nala</i>, 66', fordable</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Obtainable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	COLLECTOR OF TRICHINOPOLY, TRICHINOPOLY.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	7	<p>VIRUDĀCHALAM.—8 m. 0 f. Road and country as before. A large town.</p> <p>Route No. 32 crosses here. 1½ m. Vetttagudi. 2 m. Pothur. 3 m. Vellar river, 200 yds., fordable. 4 m. Peralur. 5½ m. <i>nala</i>, 120', fordable. 7 m. Chitalur.</p> <p><i>Camping-ground.</i>—3 acres E. and 1 acre S. of town.</p> <p><i>Water.</i>—From channel and tanks, for 5,000 men and 2,000 animals.</p> <p><i>Fuel.</i>—From forest 4 m. distant.</p> <p><i>Fodder.</i>—Obtainable; grazing <i>nil</i>.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 1,500 animals for 3 days. Oxen 100; sheep 500; goats 500. Vegetables in small quantities.</p>
		8 74m. 0f.	<p>MANGALAM 9 m. 4 f. Gravelled road, (3,461). fit for motors. A large place.</p> <p>2½ m. Vayalur (864). 7 m. Kepoosanur (1,496). Rupanavaninallur (433). Cross the Mani-riukta river, bridged, fordable.</p> <p><i>Camping-ground.</i>—10 acres, N.-W of village</p> <p><i>Water.</i>—From 2 tanks, for 1,000 men and animals.</p> <p><i>Fuel.</i>— } <i>Nil</i>.</p> <p><i>Fodder.</i>— }</p> <p><i>Supplies.</i>—Grain, oxen and vegetables; <i>nil</i>; sheep 50; goats 50.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	9	KIRANUR OR ULUNDURPET.—4 m. 0 f. <i>b. p.</i> Gravelled road, fit for motors. Country open and cultivated. <i>Vide</i> main Route No. V., stage No. 24.
		78m. 0f.	
		10	PERIASEVALAI.—12 m. 0 f. Metalled road, (800). fit for motors. Country open and cultivated. 2 m. Nemali (600). 3 m. Pandur (760). 6 m. Kalamandur (900). 9 m. Velur (680) the Gadilam and Seshanadi rivers, unbridged, Cross, fordable.
		90m. 0f.	<i>Camping-ground</i> .—5 acres, S. of road. <i>Water</i> .—From 1 tank and 10 wells, for 2,000 men and 1,000 animals. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Grazing; 10 acres, $\frac{1}{2}$ m. distant, for 400 animals. <i>Supplies</i> .—Obtainable from Tiruvannanallur, 2 m. distant. Grain for 1,000 men for 10 days and 200 animals for 2 days. Oxen <i>nil</i> , sheep 10; goats 10. Vegetable <i>nil</i> .
		11	TIRUKOILUR.—14 m. 0 f. Gravelled road, <i>b. p. t</i> (660). fit for motors. Country open.
		104m. 0f.	1 $\frac{1}{2}$ m. Tirukoilur Railway Station, on opposite bank of Pennar river. 4 m. Kolapakam (660). 7 m. Arinothur (414). <i>Camping-ground</i> .—1.1 acres, N. of road. <i>Water</i> .—From 1 tank, for 1,000 men and 500 animals. <i>Fuel</i> .— } Nil. <i>Fodder</i> .— } <i>Supplies</i> .—Grain for 100 men only.

ROUTE NO. 31.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	12	<p>KALLARI.—9 m. 5 f. Metalled road, fit for motors, in fair order. (699'). Country open and cultivated. 7½ m. Veraiyur (423). Cross the Pennar river, unbridged, fordable.</p> <p><i>Camping-ground</i>.—Nil.</p> <p><i>Water</i>.—From wells and tank. In cold weather, Veraiyur tank gives abundant supply.</p> <p><i>Fuel</i>.— } Nil. <i>Fodder</i>.— } <i>Supplies</i>.— }</p>
		113m. 5f.	
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	13	<p>TIRUVANNAMALAI.—10m. 0 f. Metalled road, fit for motors. d. p. t. r. (285,641). Country open and cultivated, interspersed with rocky jungle and Forest Reserves. A large municipal town. Route No. 36 joins here. 9 m. Melatukkan (291). Cross 1 stream, bridged.</p> <p><i>Camping-ground</i>.—10 acres, S. of, 30 acres W. of, and 20 acres N. of, town.</p> <p><i>Water</i>.—From 10 wells and 2 tanks, for 400 men and 200 animals</p> <p><i>Fuel</i>.—10 tons daily.</p> <p><i>Fodder</i>.—Grazing: 2,000 acres, within 5 m., for 500 animals.</p> <p><i>Supplies</i>.—Grain for 400 men, 100 horses, and cattle for 2 months. Oxen, sheep and goats, 10 each daily. Vegetables obtainable.</p>
		123m. 5f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, CHITTOOR. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		14	PALISPAK.—15 m. 1 f. Metalled road, fit for motors and wheeled transport. Country flat and cultivated. Jungle nearly all the way. The Cheyār, unbridged, fordable. 7 m. Devikaparum (2,792). 8 m. Polur. Cross. <i>Camping-ground</i> .—15 acres, W. of village. <i>Water</i> .—From river, for 1,000 men and 1,000 cattle. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Procurable with notice. <i>Supplies</i> .—Grain for 500 men and 500 animals. Sheep 50; goats 50; oxen nil. Vegetables obtainable, (5 days' notice required for supplies.)
		138 m. 6 f.	
		15	KONATUR—7 m. 4 f. Metalled road, fit for wheeled transport. Country cultivated.
		146 m. 2 f.	2½ m. Kurivimdai (472). 6 m. Vasur (709). 7½ m. Polur (8,799). Streams bridged. <i>Camping-ground</i> .—6.41 acres, W. of road. <i>Water</i> .—From 10 wells for 1,000 men and 1,000 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing: nil. Fodder obtainable with notice. <i>Supplies</i> .—Grain for 500 men and 500 animals. Oxen nil; sheep 50; goats 50. Vegetables obtainable.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, CHITTOOR.	COLLECTOR OF NORTH ARCOT, CHITTOOR.	16	WANAMDRUGAM.—13 m. 5½ f. Metalled road, fit for motors. Country open and cultivated. A small village. 3 m. Athimala-pet (814). 6 m. Kongrampet (98). 7 m. Vellasa (1,877). 8. m. Kamandampalayam (3,278). 11 m. Alayusandi (561). Cross Naganadi river, unbridged; in flood, some times unfordable for 4 or 5 days. <i>Camping-ground</i> .—1 acre, close by; bad ground. <i>Water</i> .—From wells; supply not good; for 50 men and 100 animals. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Nil.
		159 m. 7½ f.	
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	17	KANIYAMBADI.—7 m. 2 f. Metalled road, fit for motors. Country rocky, cultivated near village. <i>Vide</i> Route No. 23, stage No. 10. 3 m. Vellam and Kannamangalam (1,877). 3 m. Cross Kannamangalam river, unbridged, fordable.
		167 m. 1½ f.	
COLLECTOR OF CHITTOOR.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	18	VELLORE.—8 m. 0 f. Metalled road, fit for motors. Country open and cultivated. Pass Adukamseri. <i>Vide</i> main Route No. IV, stage No. 7.
		175 m. 1½ f.	
COLLECTOR OF CHITTOOR.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	19	NARAHARIPET.—12 m. 3 f. Road as before; but not fit for motors. Country alternate cultivation and jungle.
		187 m. 4½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			<p>Route No. 34 joins here and 37 crosses in this stage. 2m. Pallur. 4½m. Punatur. 5½m. and 10m. stream, bridged; 2m. cross Pallur river, bridged. 4½m. Katpadi Railway station.</p> <p><i>Camping-ground</i>.—8 acres, ¼m. S. of village.</p> <p><i>Water</i>.—From wells and a tank, for 200 men and 150 animals.</p> <p><i>Fuel</i>.—From Forest Reserve, close by.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain at 7 days' notice. Oxen 100 sheep 150; goats 100. Vegetables: 2 maunds.</p>
		20 197m. ½f.	<p>CHITTOOR.—9m. 4f. Road and country <i>p.t.r.</i> (10,998). as before. Country rocky in places.</p> <p>A large civil station. Route No. 43 joins here. 1½m. Vasanthapur. 2m. Kothapalli. 5m. Gangaspuram. 6½m. Rallagunta. 8m. Granaspeta. Cross 6 <i>nalas</i> between 1¼ and 6½ m., all bridged.</p> <p><i>Camping-ground</i>.—11 acres, S. of village.</p> <p>Site near Granaspeta, a few miles from Chittoor; where water is procurable, but not abundant.</p> <p><i>Water</i>.—From 1 tank, 1 pond and 1 well, for 300 men.</p> <p><i>Fuel</i>.—Cut, 2 tons stacked.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 200 men and 300 animals for 2 days. Oxen 12; sheep 50; goats 50. Vegetables 20 maunds.</p>

ROUTE No. 31 (1).

FROM KORADACHERI TO KUMBAKONAM.

Road metalled and bridged throughout.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (1).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KORADACHERI.
		1	<i>b.p.t.</i>
		17m. 6f.	KODAVASAL — 17 m. 6f.
		2	<i>p.</i>
		28m. 6f.	KUMBAKONAM.—11m. 6f.
			<i>b.p.t.r.</i>

ROUTE No. 31 (2).

FROM KUMBAKONAM TO TRANQUEBAR.

The road is bridged throughout and, though not metalled, is of such soil that it is practicable for troops at all seasons. It passes through a country intersected by water channels and richly cultivated, so that, while crops are standing, it is not easy to find encamping grounds.

Direction.—East.

COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KUMBAKONAM.—
		1	<i>b.p.t.r.</i>
		10m. 7f.	SAUTENUR.—10m. 7f. A small village; camping-ground dry and well shaded by trees, 200 yds. south of road, close to village; water from wells and river; there is a branch post office and railway station at Aduturai, 2 m. distant, from which place supplies are procurable.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (2).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	2	PERAMBUR.—13m. 5f. A small village ; p. camping-ground for 2 or 3 companies E. of village, and for a regiment in a grove to S. of it ; water from wells ; country cultivat- ed ; no supplies.
		24m. 4f.	
		3	TRANQUEBAR.—11m. 7f. A large town ; b.p.t. camping-ground out- side the fort gate ; country cultivated, supplies procurable.
		36m. 3f.	

ROUTE No. 31 (3).

FROM KUMBAKONAM TO TRIMALVASAL.

A sanded road, in fair order as far as Shyali, thence metalled.

Direction.—East.

COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	KUMBAKONAM. b.p.t.
		1	MANAMBADI.—7m. 4f. A small village, no supplies, coun- try richly cultivat- ed. At 3 m. 4 f. the right bank of the river is reached.
		7m. 4f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (3).
Civil.	Milit- tary.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	2	TIRUPANANDAL.—3m. 1f. <i>p.</i>
		10m. 5f.	
		3	PANDANALLUR.—10m. 1f.
		20m. 6f.	
		4	SHIYALI.—17m. 0f. <i>b.p.t.r.</i>
		37m. 6f.	
		5	TRIMALVASAL.—7m. 4f.
		45m. 2f.	

ROUTE No. 31 (4).

FROM TIRUPANANDAL TO GANGAIKONDAPURAM.

An earthen road, partially gravelled.

Direction.—North.

COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	TIRUPANANDAL <i>p.</i>
		1	VIRASHOLAGAN.—6m. 4f. A small village; with tank; coun- try flat. Route
		6m. 4f.	No. 9 to Trichinopoly turns off west at 8m. 6f. Three camping grounds available with good water near them; supplies must be obtained from Gangaikondapuram.
		2	GANGAIKONDAPURAM.—2m. 0f.
		8m. 4f.	

ROUTE No. 31 (5).

FROM VENOYKONTERVU TO ANAIKARACHATTRAM.

Road in fair order, except at the place where the Alingiyar river falls into the Coleroon river, which is much affected by floods; the road is heavy and difficult in winter.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (5).
Civil.	Military.		
COLLECTOR OF TANJORE, TANJORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	VENOYKONTERVU.
		1	ANAIKARA.—26m. 6f.
		26m. 6f.	CHATTRAM. p.

ROUTE No. 31 (6).

FROM MANGALAM TO ELAVANASUR.

Road gravelled in parts, practicable at all seasons.

Direction.—North-West.

COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	MANGALAM. p.
		1	ELAVANSUR.—5m. 4f.
		5m. 4f.	p.

ROUTE No. 31 (7).

FROM PERIASEVALAI TO VILLUPURAM.

Cross the Penner and Mallattar rivers, unbridged. Road partly gravelled, impracticable in the rains.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (7).
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PERIASEVALAI.
		1	TIRUVENNANALLUR.—2m. 2f. <i>p.</i>
		2m. 2f.	
		2	VILLUPURAM.—12m. 7f. <i>b.p.t.r.</i>
		15m. 1f.	

ROUTE No. 31 (8).

FROM TANDARAMPATTI TO TIRUVANNAMALAI.

Road gravelled, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (8).
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TANDARAMPATTI. <i>p.</i>
		1	TIRUVANNAMALAI.—10m. 0f. <i>b.p.t.r.</i>
		10m. 0f.	

ROUTE No. 31 (9).

FROM TIRUVANNAMALAI TO KONJI.

Cross the Cheyar river, unbridged. Road gravelled, practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (9).
Civil.	Military.		
COLLECTOR OF S. ARCOT, CUDDALORE.	MADRAS DISTRICT, WELLINGTON.	..	TIRUVANNAMALAI. <i>b.p.t.r.</i>
	G. O. C.	1	KONJI —14m. 0f.
	G. O. C.	14m. 0f.	

ROUTE No. 31 (10).

FROM TIRUVANNAMALAI TO ANALURPET.

Road gravelled and practicable at all seasons.

Direction.—North-East.

COLLECTOR OF NORTH ARCOT, VELLORE.	MADRAS DISTRICT, WELLINGTON.	..	TIRUVANNAMALAI. <i>b.p.t.r.</i>
	G. O. C.	1	ANALURPET.—14m. 0f.
	G. O. C.	14m. 0f.	

ROUTE No. 31 (11).
FROM POLUR TO ARKONAM.

Road metalled, except between Conjeeveram and Arkonam; where it is partially gravelled.

Direction.—East and North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (11).
Civil.	Military.		
COLLECTOR OF N. ARKOT, VELLORE.	COLLECTOR OF NORTH ARKOT, VELLORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	.. POLUR.—On Route No. 31. <i>b.p.r.</i>
			1 CHETPAT.—16m. 1f. <i>Vide</i> Route No. 23, <i>p.</i> stage No. 6.
			16m. 1f.
			2 WANDIWASH.—18m. 3f. <i>Vide</i> Route No. 34, <i>p.t.</i> stage No. 5.
			34m. 4f.
COLLECTOR, CHIN- GLEPUT, SADAPEET.			3 CONJEEVERAM.—25m. 0f. 6 m. 3 f. of <i>p.t.r.</i> this road are in the Chingleput Dist- riet. On Route No. 37.
			59m. 4f.
COLLECTOR OF N. ARKOT, VELLORE.			4 NEAR MACLEAN'S.—8 m. 0f. CHOULTRY.
			67m. 4f.
			5 ARKONAM RAIL.—14m. 1f. Cross the Kam- WAY STATION. bambkal and Pol- <i>p.t.r.</i> lam rivers, unbridg- ed.
			81m. 5f.

ROUTE No. 31 (12).
FROM POLUR TO PUTTUR.

Road metalled (chiefly) and gravelled, practicable at all seasons.

Direction.—North-North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (12).
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	..	POLUR. <i>b.p.r.</i>
		1 16m. 4f.	ARNI.—16m. 4f. <i>p.l.</i>
		2 27m. 4f.	TIMIRI.—11m. 0f. <i>p.</i>
		3 35m. 6f.	RANIPETTAI—8 m. 2f. <i>Vide</i> Main Route No. IV, Stage No. 6. <i>p.t.r.</i> Cross the Palar river, unbridged.
		4 51m. 0f.	SHOLINGHUR.—15m. 2f <i>A large place; camping-ground, high and good, 1½m.</i> <i>p.r.</i> W., sufficient for 2 regiments; other ground 3m. short of village; water from a large tank and wells; road generally bad, stony and circuitous; soil red, country generally open. At 4m. pass Arcot Railway Station and cross line: at 9 m. pass Nilakantaraypet. Supplies available.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (12).
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	5	PALLIPAT.—14m. 5f. Supplies procurable at p a week's notice.
		65m. 5f.	
		6	PUTTUR.—13m. 1f. Vide Route No. 38; p.r. stage No. 6. Coun- try through the pass is hilly and jungly, elsewhere cultivated; soil red; road generally bad, stony and sandy; the descent of the pass is easy, and not diffi- cult for carts. Supplies available.
		78m. 6f.	

ROUTE No. 31 (13).

FROM CHITTOOR TO NAGARI.

Cross the Nagari and Poinay rivers, unbridged. Road metalled and bridged, except the two rivers named; practicable at all seasons.

Direction.—East by North.

COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	CHITTOOR. p.r.
		1	PALLIPAT.—25m. 3f. p.
		25m. 3f.	
		2	NAGARI.—10m. 3f.
		35m. 6f.	

ROUTE No. 31 (14).

FROM NEAR CHITTOOR TO PENNAMUR.

Cross the Poinay river, unbridged. Road gravelled and small streams bridged.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (14).
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.			
	G. O. C. MADRAS DISTRICT, WELLINGTON.		
		1	Near CHITTOOR. <i>p.t.r.</i>
		16m. 6f.	PENNAMUR.—16m. 6f. <i>p.</i>

ROUTE No. 31 (15).

FROM NEAR CHITTOOR TO IRALL.

Cross two streams, unbridged. Road gravelled and other streams bridged. This road leaves the last at the 4th m.

Direction.—North by West.

COLLECTOR OF CHITTOOR, CHITTOOR.		..	Near CHITTOOR.
	G. O. C. MADRAS DISTRICT, WELLINGTON.		
		1	IRALL.—15m. 0f.
		15m. 0f.	

ROUTE No. 31 (16).

FROM NEAR CHITTOOR TO ARUNGUNTAH.

Cross one stream, unbridged. Road gravelled and other streams bridged.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 31 (16).
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	Near CHITTOOR. <i>p.l.r.</i>
		1	ARUNGUNTAH.—11m. 3f.
		11m. 3f.	

ROUTE NO. 32.

FROM CUDDALORE TO PALLIPALIYAM.

Authority and date.—General Officer Commanding 9th Division, Jan. 1919.

Epitome.—Direction—W.-S.-W. As far as Atur, the road is metalled and bridged throughout; thence to Rasipuram, it is partially metalled and bridged, with the exception of the Kōneri, Narasingapuram and Mungalapuram rivers. The remainder of the road is metalled, but the Salem river is unbridged. This road is practicable at all seasons. Total distance 153½ miles.—14 stages.

AUTHORITIES.]		No. of stage, and total distance.	ROUTE NO. 32.
Civil	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	1	CUDDALORE.—Road fit for all transport. <i>b, p. t. r.</i> Country cultivated. <i>Vide</i> Route No. 5, stage No. 33.
		12 m. 2f.	KULLAN'S CHOULTRY.—12 m. 2 f. Metalled road, fit for <i>b.</i> motors. Country cultivated. 1 m. Tirupapaliyar. 1½ m. Silhan- kuppan. 3 m. Gudalur. 3½ m. Pachyan- kuppen (combined population 56,574). 5 m. Karankado (1,875). 7 m. Anavalli (2,743). 8 m. Sidapalayan (2,088). 9 m. Thondamana- tham (2,456). 10 m. Annakaputhu (958). 12 m. Valadalan- vathi (3,070). Between Cuddalore and Kulan- chavady cross Uppadar and Pulikuttai channel bridged (this bridge reported to be broken). <i>Camping-ground.</i> —For 500 men, close by. <i>Water.</i> —From wells and tanks; abundant supply. <i>Fuel.</i> —Obtainable.

ROUTE NO. 32.

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	

COLLECTOR OF SOUTH ARCOT, CUDDALORE.

GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.

2

19 m.
0 f.

Fodder.—For 70 animals, obtainable with notice; grazing *nil*.
Supplies.—Grain from Sunday market only. Oxen, sheep, goats, vegetables *nil*.

KURINJIPADI.—6 m. 6 f. Metalled road. fit for motors. Country flat and well cultivated.

1 m. cross Nagakolan channel, bridged. 3 m. Palayan. 3½ m. Thambipettu, 5 m. Pethananken Kupper. 6½ m. Villapalam.

Camping-ground.—For 100 men, W. of village. *Water.*—From tanks and wells, no scarcity usually.

Fuel.—Obtainable with notice.

Fodder.—Grazing 4 m. distant, poor.

Supplies.—Obtainable from Cuddalore with notice; none locally.

3

28 m.
4 f.

TIRUKOILUR.—9 m. 4 f. Metalled road, fit for motors. Country as before.

Vide Route No. 31, stage No. 11. Route No. 9 is crossed in this stage.

4 m. Kulapuliam (660). 7 m. Killenathur (414). 9 m. cross Gadilam river, bridged (broken), unfordable.

4

39 m.
4 f.

VIRUDACHALAM.—11 m. 0 f. Metalled road fit for motors. Country flat and jungly, mostly cultivated. *Vide* Route No. 31, stage No. 7.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 32.
Civil.	Mili- tary.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	..	2 m. Elunichai (793). 2½ m. Mangalam (954). 3½ m. Uthangal (2180). 5 m. Arasakuli (141). 6½ m. Sathamansalam (706). Cross Manimukta river. bridged, and 2 streams, unbridged, but fordable.
		5	VEPPUR —14 m. 0 f. Gravelled road, fit for motors. Country open. Main Route No. V crosses here.
		53 m. 4 f.	6 m. Vilangassar (638). 7 m. Sathiam (914). 10 m. Kokathanur (578). 11 m. Thiruppayar (594). 12 m. Naraiyur (980). <i>Camping-ground.</i> —30 acres S. of village and 15 acres close by. <i>Water.</i> —Scarce. <i>Fuel.</i> — } Nil. <i>Fodder.</i> — } <i>Supplies.</i> —Grain, oxen and vegetables <i>nil</i> , sheep 30; goats; 10.
		6 67 m. 6 f	KILAKUPAM.—14 m. 2 f. Metalled road, fit (600). for motors. Country up to 10 m. cultivated, then jungle to end of stage. <i>Camping-ground.</i> —No Government site; sufficient space for 1 Battalion close by. <i>Water.</i> —From 1 tank and 3 wells; supply unlimited. <i>Fuel.</i> —Plenty obtainable. <i>Fodder.</i> —Grazing for 20 animals only in village <i>Supplies.</i> —Nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 32.	
Civil.	Military.			
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	7	THALLAVASAL.—12 m. 2 f.	Metalled road, fit for motors. Country open and cultivated. 2 m. Deviyakumshi (12,908). 3m. Manivilunthan (2,108). 6 m. Kallukoppai (2,697). <i>Vide</i> Route No. 19, stages Nos. 8 and 9.
		80 m.	b.	
		8		
		90 m. 4 f.	ATUR.—10 m. 4 f.	
		9	p.	
		98 m. 4 f.	MALLIAKARAI.—8 m. 0 f.	
		p.	Metalled road, fit for motors. Country cultivated.	
		10	On Route No. 12, stage No. 13.	
		116 m. 4 f.	4 m. Tandarayapuram (1,972). 5 m. cross Kuttar, unbridged, always fordable. 6 m. Sokkanathappuram (1,008). 7 m. Echampatti (467).	
			NAMAGIRIPETAI.—18 m. 0 f.	Road metalled, but unfit for motors.
			p.	Country, first 4 m. open and cultivated, then hilly and jungly to 8 m., thence open and cultivated. Near Namagiripetai, there is a hill $\frac{3}{4}$ m. long, easy gradient; maximum 1 in 20; the river is at the foot of this bank 50 ft. high, sloped to a gradient of 1 in 10, width at bottom 30 ft, always fordable. Cross the Koneri, Narasingapuram

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 32.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		and Mungalapuram rivers, unbridged, fordable at all seasons. 12½ m. Eesura Murthapalayam (1,353). 17½ m. Mungalapuram (2,457).
		11	RASIPURAM.—6 m. 0 f. Road fit for motors. p. (6,105) Country open and cultivated. A small town. 1¼ m. Sirapalli (3,844). 3½ m. Kabbarvas (1,324). Cross 1 stream, unbridged, fordable.
		122m. 4 f.	<i>Camping-ground</i> .—3 acres N.-W. of village and 12 acres close by. <i>Water</i> .—From 20 wells, for 1,000 men and 1,000 animals. <i>Fuel</i> .—100 tons. <i>Fodder</i> .—Grazing: 350 acres, within 3 m.; for 500 animals. <i>Supplies</i> .—Grain for 1,000 men and 1,000 animals. Oxen 100; sheep 200; goats 200. Vegetables for 1,000 men obtainable.
		12	VYAPPAMALAL.—6 m. 0 f. Road fit for (489). motors. Country open and cultivated.
		128 m. 4 f.	Route No. 6 is crossed in this stage. Distance approximate. <i>Camping-ground</i> .—15.65 acres, E. of road. <i>Water</i> .—From streams and wells, for 500 men and 500 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing nil. <i>Supplies</i> .—Grain obtainable, as required, with notice. Oxen 150; sheep 289; goats 185. Vegetables nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 32.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER, COMMANDING MADRAS DISTRICT, WELLINGTON.	13	<p>TIRUCHENGOD.—14 m. 0 f. Metalled road, fit (4,645). <i>p. t.</i> for motors. Country open and cultivated. <i>Vide</i> Route</p> <p>No. 17, stage No. 14. Cross the Tirumamiuthu, unbridged, may cause a day's delay in flood. 5½ m. Honniar (3,645). 7 m. Agaram (1,945). 11 m. Kamara Mangalam (3,382).</p>
		142 m. 4 f.	
		14	
		153 m. 4 f.	
			<p>PALLIPALAYAM.—11 m. 0 f. Road fit for (4,483). <i>p.</i> motors. Country open and cultivated. <i>Vide</i> Route</p> <p>No. 13, stage No. 7. 3 m. Varagenampatti (912). 4 m. Thockavadi (1,582). 6 m. Kadachinallur (944). Cross 1 stream, fordable.</p>

ROUTE No. 33.

FROM PONDICHERRY TO KRISHNAGIRI.

Authority and date.—General Officer Commanding 9th Division, Jan. 1919.

Epitome.—Direction—North-West. As far as Villupuram, the road is metalled or gravelled throughout, the Verahanadi river is unbridged and practicable at all seasons; the Pambai river is unbridged. Total distance 131 m. 0 3 f. m.—14 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 33.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	1	<p>PONDICHERRY.—<i>Vide</i> Route No. 5, stage <i>b. p. t. r.</i> (French terry). No. 34.</p> <p>KANDAMANGALAM.—10 m. 0 f. Road partly (800). gravelled; in good repair; fit for all transport. Country open and cultivated. A small village. 6 m. Kappur (2,500). 7 m. cross the Verahanadi river, unbridged, $\frac{1}{2}$ m. wide, fordable except in flood.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—From wells, scarce.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>— } Nil.</p> <p><i>Supplies.</i>— }</p>
		2 20 m. 0 f.	<p>KOLIYANUR.—10 m. 0 f. Road and country as (2,900'). before. A fair sized village. Route No. 9 crosses here. 6 m. Gangarampolayam (1,600). 8 m. Kumarakupam (4,700). Railway Station.</p> <p><i>Camping-ground.</i>—E. of village.</p> <p><i>Water.</i>—From wells and 2 tanks, for 5,000 men and 500 animals.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Nil.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 33.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	3	<i>Supplies.</i> —Grain for 200 men for 1 day; other supplies nil.
		23 m. 7 f.	VILLUPURAM.—3 m. 7 f. Road fit for <i>b. p. t. r.</i> motors. Country as before. <i>Vide</i> main Route No. V, stage No. 26.
		4	ARIYALUR.—10 m. 0 f. Road as before. Country, alternate cultivation and forests. A fair-sized village. 7 m. Nengandru (1,500). Cross 3 canals; 1 bridged; all fordable in dry season.
		33 m. 7 f.	<i>Camping-ground.</i> —25 acres, N.-E. of village. <i>Water.</i> —From wells and tanks, for 500 men and 500 animals. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —Grazing for 300 animals $\frac{1}{2}$ m. from village. <i>Supplies.</i> —Scarce.
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	5	VETTAVELLAM.—12 m. 3 f. Metalled road, (549). moderate repair, fit for all transport, difficult for motors. Country hilly. A small village.
		46 m. 2 f.	<i>Camping-ground.</i> —Nil. <i>Water.</i> —Nil. <i>Fuel and Fodder.</i> —Nil. <i>Supplies.</i> —sheep 50; goats 50.
		6	TIRUVANNAMALAI.—16 m. 0 f. Road and country as before. <i>Vide</i> Route No. 31, stage No. 13.
		62 m. 2 f.	

AUTHORITIES.		No. of stage and total distance	ROUTE NO. 33.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	7	<p>KOTAKOLAM.—16 m. 2 f. Gravelled road, (2,385). fit for motors. Country partly cultivated, partly forest. A large place. 7 m. village (765). 10 m. village (370). <i>Camping-ground.</i>—Nil. <i>Water.</i>—Available from river, but not good. <i>Fuel.</i>—From Forest Reserve, 2 m. distant. <i>Fodder.</i>—Grazing for 1,000 animals in Forest Reserve. <i>Supplies.</i>—Grain for 100 men and 50 animals for 3 days. Oxen, nil; sheep 250; goats 60. Vegetables nil.</p>
		78 m. 4 f.	
COLLECTOR OF SOUTH ARCOT, CUDDALORE	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	8	<p>CHENGAM.—5 m. 3½ f. Road as before. Country b. p. (2,903). open and cultivated. A small town. 1½ m. stream, 50 yds., fordable. 2½ m. Manmalai (1,573). 3½ m. Thukkapet (393). <i>Camping-ground.</i>—Nil. <i>Water.</i>—From Kulam river and 21 wells, for 5,000 men and 2,000 animals. <i>Fuel.</i>—Cut, 5 tons stacked, also from Forest Reserve, 2 m. distant. <i>Fodder.</i>—Grazing for 1,000 animals, in Forest Reserve, 4 m. distant. <i>Supplies.</i>—Grain for 500 men and 100 animals for 1 day. Oxen nil; sheep 700; goats 300. Vegetables nil.</p>
		83 m. 7½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 33.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	9	<p>SINGARAPET.—12 m. 1 f. Metalled road as before. Country between 5½ m. and 12½ m., Reserved Forest, elsewhere cultivated. The hill consists of two ascents and descents, both of which are easy; the latter is the southernmost part of the Javadi range of hills. Cross the Changama hill.</p> <p>2 m. Piludur (250). Stream, 23 yds., fordable. 2½ Pakkripalem (50). 3½ Andanur (20). 5½ m. Melsangam (500). 8½ m. Thandampatli (40). 8½ m. Arasangini (100). 11½ m. Anandavadi (15). 12½ m. Vellakuttai (40).</p> <p><i>Camping-ground</i>.—N.-W. of village and parallel with road. Sufficient for 2 Infantry Brigades.</p> <p><i>Water</i>.—Throughout the year, from tanks and wells.</p> <p><i>Fuel</i>.—Cut, available.</p> <p><i>Fodder</i>.—Grazing for 1,000 animals, in Forest Reserve, ½ m. distant.</p> <p><i>Supplies</i>.—Grain nil. Oxen 100; sheep 500; goats 500. Vegetables in small quantities during season.</p>
COLLECTOR OF SALEM, SALEM.		10	
		102 m. 0 f.	<p>UTTANKARAI.—6 m. 0 f. Metalled road, fit for motors. Country to river open and cultivated, thence jungle and forest. Route No. 6. crosses here. Headquarters of a sub-district. 3½ m. cross the Pambar river, unbridged, generally fordable.</p> <p>2 m. Mothupatti (834).</p> <p><i>Camping-ground</i>.—3 acres, 1 m. from village.</p> <p><i>Water</i>.—From wells, for 500 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 33.
Civil.	Military		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			<p><i>Fodder.</i>—Nil. <i>Supplies.</i>—Obtainable only with notice.</p>
		11	<p>SAMALPATTI.—5 m. 0 f. Metalled road, fit (368). for motors. Country open and cultivated. 4 m. Uddapatti (150). <i>Camping-ground.</i>—7.19 acres, close to road. <i>Water.</i>—From wells, for 500 men and 500 animals. <i>Fuel.</i>—Scarce. <i>Fodder.</i>—Grazing $\frac{1}{2}$ m. distant (in rains only). <i>Supplies.</i>—With notice; grain as required. Oxen 150; sheep 300; goats 100. <i>Vegetables.</i>—Nil.</p>
		107 m. 0 $\frac{1}{2}$ f.	
		12	<p>MATTUR.—7 m. 0 f. Metalled road, fit for (826). (Railway Station), motors. Country open and cultivated. A small place. 1 $\frac{1}{2}$ m. Jagipatti (200). 3 m. Surmampatti (200). 4 m. Kondireddipatti (30). 5 m. Sonarhalli (60). Cross the Soimenampatti river, unbridged, fordable; 2 channels, bridged, and several <i>nalas</i>, unbridged, but all fordable. <i>Camping-ground.</i>—10 acres. No fixed site. <i>Water.</i>—Good, but scarce late in the year, for 150 men and 100 animals. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing: 60 acres, 1 m. distant, for 150 animals. <i>Supplies.</i>—Grain for 150 men and 50 animals for 1 day. Oxen <i>nil</i>; sheep 5; goats 5. <i>Vegetables nil.</i></p>
		114 m. 0 $\frac{1}{2}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 33.
Civil.	Military.		
COLLECTOR OF SALEM, SALEM.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	13	<p>JAGADEVL—10 m. 0 f. Metalled road, fit for (1,314). Country open, jungly and cultivated. A large village. 3 m. Kannan-dapalli (1,200). 4 m. Kottur (150). 5 m. Peru Velampatti (760). 8 m. Jiddopanapalli (60).</p> <p><i>Camping-ground</i>.—4 acres S. of village, and 40 acres near by.</p> <p><i>Water</i>.—From wells, for 500 men and 100 animals.</p> <p><i>Fuel</i>.—1,000 maunds.</p> <p><i>Fodder</i>.—Grazing: Nutta Forest, 1 m. distant; for 500 animals.</p> <p><i>Supplies</i>.—Grain for 100 men and 50 cattle for 2 days. Oxen 5; sheep 20; goats 20. Vegetables: brinjals obtainable.</p>
		124 m. 0 1/2 f.	
		14	
		131 m. 0 1/2 f.	
			<p>KRISHNAGIRL—7 m. 0 f. Metalled road, fit b. p. i. for motors. Country cultivated generally. <i>Vide</i> Main Route No. IV, stage No. 14.</p> <p>1 m. Sandarapalli (150). 2 m. Anchur (200). 3 1/2 m. Peryapahamuthu (317). Cross 3 <i>nalas</i>, bridged.</p>

ROUTE No. 33 (1).

FROM NEAR PONDICHERRY TO PAPANAPET.

Cross the Verahanadi river, unbridged. Road partly gravelled, impracticable in the rains.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 33 (1).
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PONDICHERRY. <i>b. p. t. r.</i> (French Tery.).
		1	PAPANAPET.—23 m. 3 f. (beyond Vikravandi).
		23m. 3f.	

ROUTE No. 33 (2).

FROM TANDARAMPATTI TO KOTAKOLAM.

Road gravelled, practicable at all seasons.

Direction.—North-West.

COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	TANDARAMPATTI. <i>p.</i>
		1	KOTAKOLAM.—11 m. 2 f.
		11 m. 2f.	

ROUTE No. 33 (3).

FROM SINGARAPETAI TO NATTARAMPALLI.

Cross a branch of the Pambaiyar river, unbridged; road partially metalled and bridged, practicable at all seasons.

Direction.—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 33(3).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. N. ARCOT, VELLORE.	G. O. C. BANGALORE,	..	SINGARAPETAI <i>p.</i>
		1	TIRUPATUR.—17 m. 4 f. <i>Vide</i> Route No. 31. <i>p. t. r.</i>
		17 m. 4 f. 2	PUDUPET.—5 m. 2 f.
		27 m. 6 f. 3	NATTARAMPALLI. 5 m. 0 f. <i>Vide</i> Main Route IV, stage No. 12. <i>b.</i>
		27 m. 6 f.	

ROUTE No. 33 (4).

FROM IRUMATTUR TO JENDAMEDU.

Cross the Pennar river, unbridged; road partly metalled, bridged, practicable at all seasons.

Direction.—East.

COLLECTOR OF SALEM, SALEM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	IRUMATTUR. <i>p.</i>
		1	JENDAMEDU.—15 m. 4 f.
		15 m. 4 f.	

ROUTE No. 33 (5).
FROM KALLAVI TO KARAPPATTI.

Cross the Kunnathur river, unbridged. Gravelled road, practicable at all seasons, except when the river is in flood.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 33 (5).
Civil.	Military.		
COLLECTOR OF SALEM, SALEM. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		..	KALLAVI. <i>p. r.</i>
		1	KARAPPATTI.—11 m. 0 f.
		11m. 0f.	

No. 34.

FROM PONDICHERRY to CHUKKALUR.

Authority and date.—General Officer Commanding 9th Division, January 1919.

Epitome.—Direction—N.-N.-W. As far as Chittoor, the road is metalled or gravelled (except between Devanur and Vellimedu) and is bridged, with the exception of the Palar river; practicable at all seasons. Thence to Rayachoti, it is metalled and sufficiently bridged to be practicable for carts at all seasons. The hill is 3½ m. long and well made; fever prevails about Damulcheruvu during the hot months. As regards the remainder of the road, it is metalled in the Cuddapah District, but numerous unbridged streams and nullahs have to be crossed in the Anantapur District, where it is gravelled; beyond Yellanur only cart track. Total distance 263 m. 7¼—26 stages

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOI, CUDDALORE.	FRENCH TERRITORY.		PONDICHERRY.—A large town. Headquarters of the Governor of the French Settlements. <i>Vide</i> Route No. 5, stage No. 34.
		1	VANUR.—9 m. 4f. Gravelled road, fit for b. p. (2,230). Country: dry cultivation.
		9m. 4f.	<i>Camping-ground.</i> —Only on uncultivated lands. <i>Water.</i> —From 2 tanks and 2 wells, for 500 men and 1,000 animals. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —nil. <i>Supplies.</i> —None available.
		2	MAILAM.—11 m. 0f. Metalled road, fit for (Railway station). Country open, rocky and cultivated.
	GENERAL OFFICER, COMMANDING MADRAS DISTRICT, WELLINGTON.	20m. 4f.	A large place.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF SOUTH ARCOT, CUDDALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>3 m. Ranganadapuram (—). 5 m. Parangari (1,546). 8 m. Kunnam (863). 10 m. Taludal (1,004).</p> <p><i>Camping-ground</i>.—300 acres, N.-W. of village.</p> <p><i>Water</i>.—From tanks and wells, for 6,000 men and 2,000 animals.</p> <p><i>Fuel</i>.—300 tons.</p> <p><i>Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 1,000 men only for 10 days. Oxen 500 ; sheep 2,000 ; goats 500. Vegetables nil.</p>
		3 30m 4f.	<p>DEVANUR.—10 m. 0 f. Metalled road, fit for motors. Country jungly with intervals of cultivation. A small village. Route No. 36 crosses here. 1 m. Kodima (673). 3 m. Muppogli (600).</p> <p><i>Camping-ground</i>.—4 acres, S.-E. of village.</p> <p><i>Water</i>.—From wells and small tanks, for 500 men and 200 animals.</p> <p><i>Fuel</i>.—Obtainable from Forest Reserve.</p> <p><i>Fodder</i>.—Grazing in Forest Reserve, $\frac{1}{2}$ m. distant, for 400—500 animals.</p> <p><i>Supplies</i>.—On 1 week's notice, grain for 300 men and 200 animals ; sheep 50 ; other supplies nil.</p>
COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C., SOUTHERN BRIGADE, MADRAS.	4 38m. 4f.	<p>VELLIMEDU.—6 m. 0 f. Road and country p. (289). as before.</p> <p>A small village. 2 m. Agur (895). 3 m. Vadasirusalur (649).</p> <p><i>Camping-ground</i>.—Nil.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water.</i>— } <i>Fuel.</i>— } <i>Nil.</i> <i>Fodder.</i>— }</p> <p><i>Supplies.</i>—Can be had with notice from Puthanandal 1 m. distant.</p>
		5	<p>WANDIWASH —10 m. 0 f. Metalled road, fit for motors. Country open and cultivated. A large village. 5 m. Thellur (2,505). <i>Camping-ground.</i>—60 acres, W. of town. <i>Water.</i>—From 10 wells and 1 tank, unlimited supply. <i>Fuel.</i>—500 maunds. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Grain for 1,000 men for 5 days and 500 animals for 2 days. Oxen <i>nil</i>; sheep 100; goats 20. Vegetables in small quantities.</p>
		46m. 4f.	
		6	<p>TIRUVATHUR.—10 m. 0 f. Gravelled road, fit for motors. Country cultivated. A large village. Cross a stream, unbridged, boats available. <i>Camping-ground.</i>—N. of village. <i>Water.</i>—From tank and wells, for 1,000 men and 500 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing: 10 acres, $\frac{1}{2}$ m. distant, for 100 animals. <i>Supplies.</i>—Grain for 100 men and 50 animals for 10 days. Oxen 839; sheep 133; goats 81. Vegetables plentiful.</p>
		56m. 4f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	7	<p>MAICHERI.—12 m. 3 f. Metalled road, fit for (940). Country jungly, interspersed with cultivation. A small village. 9 m. Moranam (657). <i>Camping-ground</i>.—22 acres, near road. <i>Water</i>.—From Wells for 200 men and 300 animals. <i>Fuel</i>.—Obtainable from Forest Reserve close by. <i>Fodder</i>.—Grazing in Forest Reserve, $\frac{1}{2}$ m. distant, for 1,000 animals. <i>Supplies</i>.—Grain: with notice, as required. Oxen nil; sheep 2; goats 4. Vegetables nil.</p>
		68m. 7f.	
		8	
		82m. 3f.	
		9	
COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	95m. 3f.	<p>NARAHARIPET.—13 m. 0 f. } <i>p. t. r.</i> } Road as before <i>Vide</i> Route No. 31, stages Nos. 19 and 20.</p>
		10	
		104m. 7f.	CHITTOOR.—9 m 4 f.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Mili- tary.		
COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	11	PUTALAPATTU.—10 m. 0 f. Metalled road, <i>p. r.</i> fit for all transport. Country, rocky, open and cultivated. A large village. 1 m. Kat- tamarichi. 2½ m. Murikaripet. 5 m. Mothi- rercal. 7 m. Bandapalli. 5½ m. cross the Poiney river, unbridged, fordable. The Chittoor river is now bridged. Route No. 43 joins here.
		114m. 7f.	<i>Camping-ground.</i> —Nil. <i>Water.</i> —From river. <i>Fuel.</i> —5 tons stacked. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 200 men and 200 animals for 2 days. Oxen 50; sheep 100; goats 100. <i>Vegetables nil.</i>
		12	DAMULCHERUVU.—11 m. 6 f. Road as <i>b. p. r.</i> (3,500). before, but fit for motors. Country open. A large village. ½ m. Putalaputu river, unbridged, 180', fordable except during floods.
COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	126m. 5f.	<i>Camping-ground.</i> —E. of village, on river bank. <i>Water.</i> —From river. <i>Fuel.</i> —None stacked. <i>Fodder.</i> —357 acres grazing for 600 animals ½ m. from villag <i>Supplies.</i> —From Pakala. Oxen 50; sheep 500; goats 200. <i>Vegetables nil.</i>
		13	PILER — 9 m. 1 f. Metalled road, fit for motors. <i>p. r.</i> (1,795). Country rocky and cultivated.
		135m. 6f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Camping-ground</i>.—W. of town; no selected site. <i>Water</i>.—From the Pincha river, plentiful supply. <i>Fuel</i>.—Nil. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 500 men and 500 animals for 2 days. Oxen <i>nil</i>; sheep 150; goats 30. Vegetables obtainable in cold weather.</p>
		14	<p>SOROKOYELPET.—8 m. 6½f. Road as (576). before, but the river bed is sandy and difficult for motors. Country rocky and cultivated. A small village about 1½ m. E. of road. Gundlur, another village 5 m. W. Cross the Pincha river, unbridged. <i>Camping-ground</i>.—No selected site. <i>Water</i>.—In good season plentiful, but scarce in dry weather. <i>Fuel</i>.—Obtainable from Forest Reserve, ½ m. distant. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain, oxen, vegetables <i>nil</i>; sheep 50; goats 50.</p>
		144m. 4½f.	
		15	<p>KALKADDA —8 m. 6¾f. Metalled road, bad (2,618). for motors.</p>
		153m. 3¼f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH, GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—Plentiful, from Sateyarathi river. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Grazing close by for 100 animals. <i>Supplies</i>.—Grain <i>nil</i>. Sheep 50; goats 50. <i>Vegetables nil</i>.</p>
		16	<p>SUMBAPPALLI.—9 m. 2½ f. Road as before, fit for motors. Country, except forest at 5 m., cultivated. A small village. Cross several small <i>nalas</i>, all stone-bridged. Cross the Talliyava river, unbridged. <i>Camping-ground</i>.—16 acres, S. of village. <i>Water</i>.—From wells for men and tank for animals. <i>Fuel</i>.—Obtainable from forest. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain and vegetables <i>nil</i>. Oxen 10; sheep 100; goats 100.</p>
		162m. 6 f.	
		17	
		169m. 7½ f.	<p>RAYACHOTI.—7 m. 1½ f. Road and country <i>b. p.</i> as before. <i>Vide</i> Route No. 24, stage No. 33. 5 m. Maravanaka, river, 40 yds., brick bridge. Cross several <i>nalas</i>, all have stone bridges.</p>
		18	<p>LAKKIREDDIPALLI.—9 m. 5½ f. Road as (1,207). before, but causeway difficult for motors. Country undulating and cultivated. ¾ m. Mandavegavadi river, 400' causeway; 4½ m. Bandalapalli river,</p>
		179m. f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>75', unbridged, fordable. 7½ m. Maddirivulavanka river, 190', unbridged, fordable. <i>Camping-ground</i>.—10 acres, N. of village. <i>Water</i>.—Always available from 2 wells <i>Fuel</i>.— } <i>Fodder</i>.— } Nil. <i>Supplies</i>.—Grain, and oxen <i>nil</i>. Sheep 10; goats 15. Vegetables: 6 maunds after rains.</p>
		19	<p>SURUPUAGRAHARAM.—11 m. 4½ f. Road (923). as before. Country, jungle with patches of cultivation. Several small villages close together. Cross several small <i>nalas</i>, bridged, and a small ghat. <i>Camping-ground</i>.—35 acres, N. of village, and other space available. <i>Water</i>.—From a stream and spring well. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 100 men and 100 animals for 2 days. Oxen 10; sheep 100; goats 100. Vegetables: 10 maunds after rains.</p>
		191 m. 1½ f.	
		20	
		202 m. 7½ f.	<p>VAIMPALLI.—11 m. 6 f. Road as before, but fit for motors. (300). Country open and cultivated as far as the river, thence hilly. A small village. 4 m. Chakrayape (902). 6 m. Lothuvanka river, 90' wide, 6' deep, unbridged, fordable; no boats available. 7 m. Kondamanapalli (207)</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>7½ m. Papayini river, ½ m. wide, unbridged, fordable, 6' of water, no boats available, unfordable in flood. 9½ m. Veerannagattupalli (720).</p> <p><i>Camping-ground.</i>—100 acres, W. of village.</p> <p><i>Water.</i>—From the river.</p> <p><i>Fuel.</i>—Obtainable within ½ m. from forest.</p> <p><i>Fodder.</i>—Grazing: 50 acres, 1 m. distant, for 1,000 animals.</p> <p><i>Supplies.</i>—Rice, cholam and ragi for 1,000 men and 500 animals for 1 week. Oxen and vegetables nil; sheep 200; goats 200.</p>
		21	<p>VEMULA.—9 m. 2½ f. Road as before. p. (1,000). Country open. A large village. 5 m. Tullapalli (121), and Musotreddipalli (264). 6½ m. Ammayagaripalli (140), and Kottiapalli (879). 9 m. Vemula river, 90', unbridged, fordable, 6' deep, no boats available, unfordable in flood.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—From stream and wells, for 5,000 men.</p> <p><i>Fuel.</i>—Obtainable from Forest Reserve, 2 m. distant.</p> <p><i>Fodder.</i>—Grazing: 60 acres, 3 m. distant, for 1,000 animals.</p> <p><i>Supplies.</i>—Cholam and ragi for 1,000 men and 500 animals for 1 week. Oxen, goats, vegetables nil; sheep 300.</p>
		212 m. 2¼ f.	
		22	<p>PULIVENDLA.—9 m. 1 f. Road as before. p. (1,941). Country flat, open and cultivated.</p>
		221 m. ¾ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>A large village. 4 m. Yelputa (739). 4½ m. river, 90', unbridged, 4' deep, fordable, except in floods, no boats available. 8½ m. Kadiri Yanka, 90', bridged, iron girders, up to 2 tons.</p> <p><i>Camping-ground</i>.—N. of village, 200 acres.</p> <p><i>Water</i>.—From stream.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing: 50 acres, 1 m. from village, for 1,000 animals.</p> <p><i>Supplies</i>.—Rice, cholam and ragi for 1,000 men and 500 animals for 2 days. Oxen, goats, vegetables nil; sheep 300</p>
		23	
		230 m. 0½ f.	<p>BALAPANURU.—8 m. 5 f. Road and country p. as before. A large village. 3 m. Royapuram river, 90', unbridged, 6' deep, fordable, except in floods, no boats available, 3½ m. Royapuram (332). 5 m. Donalavanka river, 90', unbridged, fordable. 7 m. Chukvanka, 90', unbridged, fordable.</p> <p><i>Camping-ground</i>.—200 acres, N. W. of village.</p> <p><i>Water</i>.—From tank, stream and 2 wells, for 2,000 men.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 50 acres, 3 m. distant, for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men for 2 days. Oxen and vegetables nil; sheep 100; goats 100.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.	24	YELLANUR.—14 m. 6 f. Road as before. p. (4,374). Country flat, open and cultivated.
		244 m. 6½ f.	A large place. 2½ m. Ankalannagudur (1,144). 4½ m stream 150', fordable. 8 m. Sinkaka- dapuram, (937). 10½ m. Pathapalli (1,046). <i>Camping-ground.</i> —Nil, except small spaces; more extensive ground 1 m. E., but here water is scarce. <i>Water.</i> —From tank, 2 streams and wells; un- limited supply. <i>Fuel.</i> —From Forest Reserve. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 1,000 men and 1,000 animals for 1 week, Oxen nil; sheep 1,000; goats 1,000. Vegetables in small quantities.
		25	SANAGALAGUDUR.—8 m. 7 f. Cart track (3,396). only, but fit for transport. Country
		253 m. 5½ f.	as before. A large village. 2½ m. Peddam- allipalli (595). 5½ m. Nathur (276). 1½ m. cross the Antravati R., ½ m wide, unbridged, fordable. <i>Camping-ground.</i> —Nil. <i>Water.</i> —From wells, sufficient for 3 regiments. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 250 men, other supplies nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	G. O. C., BANGALORE.	26	<p>CHUKKALUR.—10 m. 2 f. Road and country (1,139). as before. A large place. 2 m. Kuttukeddipalli. 3 m. Gandlapadu (373). <i>Nala</i>, 60', fordable. 7 m. Tadpatri. Cross the Pennar R., unbridged. Route No. 38 crosses here.</p> <p><i>Camping-ground</i>.—2,000 sq. yds., W. of village.</p> <p><i>Water</i>.—From river, unlimited supply.</p> <p><i>Fuel</i>.— } Nil.</p> <p><i>Fodder</i>.— }</p> <p><i>Supplies</i>.—Notice required.</p>
		263 m. 7½ f.	

ROUTE No. 34 (1).

FROM WANDIWASH TO ARNI.

This is the best road between Vellore and Pondicherry, being metalled and bridged throughout. The only bridge across the Cheyar river is upon this road, between Arni and Pernamallur.

Direction—North-West.

COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	WANDIWASH.—Scanty supplies available. <i>p.t.</i>
		12 m. 1 f.	PERNAMALLUR.—12 m. 1 f. No supplies <i>p.</i> available.
		2	ARNI.—13 m. 2 f. Cross the Cheyar river by a <i>p.t.</i> bridge in this stage.

ROUTE No. 34 (2).
FROM TIRUVALLAM TO CHITTOOR.

Cross two tributaries of the Poiney river, bridged. Road metalled and bridged; practicable at all seasons; a good alternative for part of the main route.

Direction.—North by West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34 (2).
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	TIRUVALLAM. p.
		1	CHITTOOR.—23 m. 6 f. p. r.
		3m. 6f.	

ROUTE No. 34 (3).

FROM 117½ MILE TO IRALL.

Cross one stream, unbridged. Road gravelled and bridged, the one stream excepted.

Direction.—North-West.

COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	117½ m. 8½ m. from Chittoor.
		1	IRALL.—14 m. 4 f. p.
		14m. 4f.	

ROUTE No. 34 (4).

FROM VAIMPALLI TO CUDDAPAH.

Cross the Papaghni river, unbridged. This road is metalled, but not bridged. It is practicable for carts at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34 (4).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.		VAIMPALLI.— <i>p.</i>
		1	CUDDAPAH—27 m. 0 f. <i>p.t.r.</i>
		27m. 0f.	

ROUTE No 34 (5).

FROM PULIVENDLA TO MUDANUR RAILWAY STATION.

Cross three feeders of the Papaghni river. This road, being partially gravelled and bridged, is practicable for carts in the dry season; it crosses a hill, the gradient of which is easy, the maximum being 1 in 20.

Direction —North-East.

COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PULIVENDLA. <i>p.</i>
		1	MUDANUR RAILWAY STATION.—22 m. 6 f. <i>p.r.</i>
		22m. 6f.	

ROUTE No. 34(6).

FROM YELLANUR TO GUNDALUR.

A made road as far as Kondapuram Station; beyond that a track, practicable in the dry season only.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 34 (6).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, COLLECTOR OF ANANTAPUR, CUDDAPAH.	G. O. C., BANGALORE.	..	YELLANUR. <i>P.</i>
	G. O. C., MADRAS DISTRICT, WELLINGTON.	1 12m. 0f.	GUNDALUR.—12 m. 0f.

ROUTE NO. 35.

FROM TELLICHERRY TO MANANTODDY.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—This road cannot be used as a cart-route, the gradient of the existing hill being so steep that pack animals only can get over it, and only in the dry season, and the wooden bridges are unsafe for heavy wheeled traffic. Fever is very prevalent about the hills, and more or less so everywhere in the Wynaad from January to June inclusive. Total distance 48½ miles, Stages 5.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 35.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	TELLICHERRY.— <i>Vide</i> Route No. 2, stage <i>b.p.t.r.</i> No. 38.
		..	
		1	KUTIPURAM.—15 m. 6 f. Gravelled road; (4,371). fit for motors. No good camping.
		15 m. 6 f.	ground, but water good. Cross the Periongolam river, unbridged, by ferry (tidal river). Country. paddy and palm groves. <i>Water.</i> —From 4 wells for 500 men and 100 animals. <i>Fuel.</i> —Very scarce. <i>Grazing.</i> —Nil. <i>Supplies.</i> —Grain for 1,000 men and 250 animals for 1 day. Oxen 5; sheep <i>nil</i> ; goats 15. Vegetables <i>nil</i> . 8½ m. distant Ringunnur (2,173). 10½ m. Tuneri (4,025). 12 m. Iyyankali (3,355). 12½ m. Vellur (4,384). 14 m. Kumman Kodi (5,602).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 35.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	2	<p>KOTIADI.—5 m. 4 f. Gravelled road, fit for motors, through paddy fields and palm groves, jungle close up to roads, soil red.</p> <p>A small village.</p> <p><i>Camping-ground</i>.—No fixed site; dry fields near village can be used.</p> <p><i>Water</i>.—From 8 wells and streams, for 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Grazing</i>.—Plentiful, within 5 m., for 500 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 100 animals for one day. Oxen; sheep; goats <i>nil</i>.</p> <p>Vegetables small quantities.</p> <p>2 m. distant Kunnummal (4,440).</p> <p>3 m. Vatayam (3,388). 3¼ m. Makevi (3,552).</p> <p>5½ m. Kuttiadi (1,302).</p>
		21 m. 2 f.	
		3	<p>KAROTH.—13 m. 0 f.—Ferries over rivers.</p> <p>b. (3,171). Hill very steep, and not passable for carts; road from foot very bad, unfit for motors and wheeled transport, heavy jungle on each side all the way. Ascend Kotiadi Hill.</p> <p><i>Camping-ground</i>.—30 acres, North of village.</p> <p><i>Water</i>.—From streams, unlimited supply.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Grazing</i>.—60 acres, within ½ m., for 500 animals.</p> <p><i>Supplies</i>.—Nil.</p> <p>3 m. distant Kunhani (1,025).</p>
		34 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 35.
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	4	
		42 m. 2 f.	<p>TIRUVANGADI.—8 m. 0 f. A small village. (720) A gravelled road, fit for motors.</p> <p>Cross two large streams, bridged. Country jungly.</p> <p>Camping-ground.—10 acres S.-E. of village, and 6 acres near.</p> <p>Water.—From wells, for 1,000 men and 1,000 animals.</p> <p>Fuel.—Obtainable.</p> <p>Grazing.—10 acres, $\frac{1}{2}$ m. distant, for 500 animals.</p> <p>Supplies.—Grain for 100 men and 100 animals for 1 day. Oxen 2; sheep nil; goats 5. Vegetables large supplies obtainable with notice.</p> <p>Pass Mangahasevi (464) and Villamundul (1,549).</p>
		5	
		48 m. 5 f.	<p>MANANTODDY.—6 m. 3 f. Vide Route No. b.p.t. 24, stage No. 8.</p> <p>Road fit for motors.</p> <p>Cross the Kavathatoda river, bridged. The river is at times impassable even by boats, owing to the rapidity of the current. Country wooded.</p>

ROUTE No. 35 (1).

FROM PERINKOLAM TO KUTTAPARAMBA.

Road well gravelled and practicable at all seasons.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 35 (1).
Civil.	Military.		
COLLECTOR OF MALABAR, CALCUT.	G. O. C. MADRAS DISTRICT, WELLINGTON.		PERINKOLAM.
		1	PANUR.—3 m. 3 f.
		3 m. 3 f.	
		2	KUTTAPARAMBA.—5 m. 6 f. b.p.
		9 m. 1 f.	

ROUTE No. 35 (2).

FROM PANUR TO KATHRUR.

Road gravelled and practicable at all seasons.

Direction.—East.

COLLECTOR OF MALABAR, CALCUT.	G. O. C. SOUTHERN DISTRICT, WELLINGTON.		PANUR.
		1	KATHRUR.—5 m. 1 f.
		5 m. 0 f.	

ROUTE No. 36.

FROM MARKANUM TO TIRUVANNAMALAI.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

This road is metalled and bridged throughout.

Total distance 63½ miles.

Stages 6.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 36.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		1	<p>MARKANUM.— <i>b.p.</i> (7,343). } Supplies may be made available. Cross a stream, bridged, and 1 canal, bridged.</p>
		12 m. 0 f.	<p>BRAHMADESAM.—12 m. 0 f. Metalled road, fit for motors, requires repair at 5 m. A small village. Country mostly cultivated. 8 m. Murukeri (76). 10 m. Alampukuppam (1,018). <i>Camping-ground.</i>—10·22 acres, N. of village. <i>Water.</i>—From tank and wells, for 500 men and 200 animals. <i>Supplies.</i>—Grain for 400 men only for 4 days. Oxen 10, sheep 200, goats 50. Vegetables <i>nil</i>. 2½ m. distant Kandadu (2,479).</p>
		2	
		22 m. 0 f.	<p>TINDIVANAM.—10 m. 0 f. <i>Vide</i> Route No. 5, <i>b.p.t.r.</i> final stage. Metalled road, fit for motors. Country open and cultivated. 3 m. distant Perumuthal (2,292). 6 m. Guruvaumapattai (259).</p>

AUTHORITIES.		No. of stage, and total distance.	ROUTE NO. 36.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE.	GENERAL OFFICER COMMANDING, MADRAS, DISTRICT, WELLINGTON.	3	DEVANUR.—7 m. 4 f. Metalled road, fit for (607). motors. Country is cultivated in parts, remainder jungle. Cross 2 streams, fordable. Supplies procurable at the weekly fair. <i>Vide</i> Route No. 34, stage No. 3. 4 m. distant Kollur (1,477). 5 m. Salai (451). 6 m. Melparadicuppam (624).
		29 m 4 f.	
		4	GINGEE.—9 m. 1f. Metalled road; fit for <i>b.p.</i> motors— <i>vide</i> Route No. 23, stage No. 4. Country cultivated. Cross Sankavapavani river, bridged, also Thurdiar river, bridged, between Gingee and Devanur. 3 m. distant Vellaim (966). 4½ m. Nangili Kanduml (336). 6½ m. Uvanitayal (203).
		38 m. 5 f.	
		5	PENNATHUR.—13 m. 3f. A large village. <i>p.</i> (4,510). Road fit for motors. Supplies available.
		52 m. 0 f.	Country open and cultivated. <i>Camping-ground.</i> —Nil. <i>Water.</i> —From tanks and wells, unlimited supply. <i>Fuel and grazing.</i> —Nil. <i>Supplies.</i> —Grain for 500 men and 100 animals for 2 days. Oxen <i>nil</i> ; sheep 100; goats 100. Vegetables <i>nil</i> .
		6	TIRUVANNAMALAL.—11 m. 4 f. <i>Vide</i> <i>b.p.t.r.</i> (285 641). Route No. 31, stage No. 13. Metalled road, fit for motors. Country open and cultivated. 6 m. cross a stream, unbridged, fordable. 5 m. distant Saviapadi (1,352). 8 m. Kilmachpatti (454).
		63 m. 4 f.	

ROUTE No. 36 (1).

FROM KANDADU TO MADURANTAKAM.

Road in good order; the bridge over the Buckingham Canal at Thenpakkam, 6 miles, is broken; the canal is crossed by boats in the rains.

Direction.—South-South-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 36 (1).
Civil.	Military.		
COLL. OF CHINGLEPUT, SADAPET.	G. O. C., MADRAS DISTRICT, WELLINGTON.		KANDADU (NEAR MARKANAM).
		1	MADURANTAKAM.—26 m. 0 f.
		26 m. 0 f.	<i>p.l.r.</i>

ROUTE No. 36 (2).

FROM PENNATHUR TO AVALURPET.

Road gravelled, practicable at all seasons.

Direction.—North.

COLLECTOR OF NORTH ARCOT, VELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		PENNATHUR.—
			<i>p.</i>
		1	AVALURPET.—6 m. 0 f.
		6 m. 0 f.	<i>p.</i>

ROUTE NO. 37.

FROM SADRAS TO ARSIKERE.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—General direction North-West. To the first stage, the road is gravelled: thence to near Karampet it is metalled; it is bridged throughout. From this place to Gudiyattam, the road is gravelled and bridged, except over the Pionay river; thence to Venkatagirikota, it is metalled and bridged, except over the Poinay river. The ascent and descent of the hill between Lalapet and Venkatagirikota is steep and the road stony; beyond that, the road is good; to Kolar thence to Vadigenhalli, it is metalled and bridged. Beyond that, it is gravelled and metalled to Devanhalli; and thence to Sompur, it is a good road, crossing two branches of the Arkavati river. The remainder of the road is good and metalled. This route is practicable at all seasons.

301½ miles.

30 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
COLLECTOR OF CHINGLEPAT, SAIDAPET.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	1	SADRAS (FORT).—A large village. Supplies p. (1,668). available. <i>Camping-ground.</i> —29 acres. <i>Water.</i> —From tank, pond and wells, for 2,000 men and 500 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —8 acres. <i>Grazing.</i> —½ m. from village. <i>Supplies.</i> —Grain for 500 men and 200 animals at 10 days notice. Oxen and vegetables <i>nil</i> ; sheep 20; goats 50
		9 m. 0 f.	TIRUKALIKUNDRA.—9 m. 0 f. Union village. Supplies available. Metalled road, fit for transport.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
COLLECTOR OF CHINGLEPAT, SAIDAPET. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>Country open, sandy soil, cultivated. $\frac{1}{2}$ m. distant canal, 24', bridged. Meyur (1,550). 2 m. Vengapanam (647). 3 m. Vaikuppa (639). 4 m. Narasankuppam (170). 5 m. Nathankariachan (966). 7 m. Mullikalathur (753). <i>Camping-ground</i>.—21 acres. <i>Fuel</i>.—From Forest Reserve. <i>Grazing</i>.—53 acres, 1 m. from town. <i>Water</i>.—From 4 tanks ponds and wells, for large numbers. <i>Supplies</i>.—Grain at 7 days' notice for 1,000 men and 300 animals. Oxen <i>nil</i>; sheep 80; goats 25. Vegetables available.</p>
		2	<p>ATHUR.—11 m. 4 f. <i>vide</i> Main Route No. 5; stage No. 32. Gravelled road as before. Country as before. 3 m. distant Kurapanam (302). 5 m. Nemmeli (767). 7 m. Alapaham (463). 8 m. Melamanjur (329). 9 m. Chingleput (11,626).</p>
		20 m. 4 f.	
		3	<p>WALAJABAD.—11 m. 0 f. A town, with <i>p.r.</i> (4,789). railway station. Supplies available. Metalled road as before. Country as before. Palar river S. of road. <i>Camping-ground</i>.—100 acres, N. of town. <i>Water</i>.—From wells and river, for 1,000 men and 1,000 animals. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—300 acres grazing 2 m. from town.</p>
		31 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
COLLECTOR OF CHINGLEPAT, SAIDAPET.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<i>Supplies.</i> —Grain for 100 men and 100 animals for 5 days. Oxen and vegetables <i>nil</i> ; sheep 50; goats 50.
		4	NAZARATHPET.—5 m. 3 f. Road, country, river, as before. A small village. 2 m. Vengudi. 2½ m. Kilottuakam. 3 m. Thimmurajampet. <i>Camping-ground.</i> —20 acres, S. of village. <i>Water.</i> —From 1 tank and 6 wells, for 100 men and 100 animals. <i>Fuel.</i> —Scarce. <i>Fodder.</i> — } <i>Nil.</i> <i>Supplies.</i> — }
		38 m. 3 f.	
		5	
		40 m. 2 f.	
COLLECTOR OF NORTH ARCOT, VELLORE.		6	WACHERI CHATTRAM.—8 m. 0 f. Road metalled, fit for motors.
		55 m. 2 f.	RANIPET OR RANIPETTAL.—12 m. 5 f. <i>p.t.r.</i>
		67 m 7 f.	
		8	KARAMPET.—8 m. 5 f. A fair-sized village. (1,057). Metalled road, fit for motors. Country flat, wet and dry cultivation.
		76 m. 4 f.	

Vide Main Route No. 4, stages Nos. 4, 5 and 6. Roads metalled, fit for motors.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		9	<p><i>Water</i>.—From river, channel and tanks. <i>Camping-ground</i>.—10 acres, E. of village. <i>Fuel</i>.—Obtainable. <i>Grazing</i>.—100 acres, 3 m. away, for 200 animals. <i>Supplies</i>.—Grain for 100 men and 10 animals for 1 day. Oxen <i>nil</i>; sheep 10 daily; goats 10 daily. Vegetables 10 mds. (brinjals only). 6 m. distant Tiruvallam (1,612). 7 m. Sumbra- yanallur. 7½ m. Ammandi. Also at 7 m. cross Ponnay river by causeway; railway bridge available close by.</p>
		87m. 4f.	<p>LETTERI.—11m. 0f. A large village. Metalled (2,338'). road fit for motors. Country open and cultivated. <i>Camping-ground</i>.—15 acres, N. of village. <i>Water</i>.—For 1,000 men and 200 animals. <i>Fuel</i>.—From Forest Reserve, 3m. distant. <i>Grazing</i>.—20 acres 2m. distant. <i>Supplies</i>.—Grain for 100 men for 2 days and 20 animals for 1 day. Oxen <i>nil</i>; sheep 10 daily; goats 10 daily. Vegetables (brinjals): 10 maunds daily. 1m. distant from village Arumlarthi (536). 3m. Brolapuram (1,825). At 5m. 4f. pass Katpadi (2,756) (railway station) and cross Route No. 31. 6m. Derapaduvedu (4,961). 7½m. Vonbrenturgul. 8½m. Karadamungulum.</p>
		10 94m. 1f.	<p>KOTAPET.—6m. 5f A very small village. (20). Metalled road, fit for motors. Coun- try, mostly wet cultivation. At 2m.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
COLLECTOR OF NORTH ARCOT, VELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		11	<p>pass Virinjipuram railway station. <i>Camping-ground</i>.—10 acres, S.-W. of village. <i>Water</i>.—From large tank S. of village, also 2 wells, supply scanty. <i>Fuel</i>.—4 cartloads daily, with notice. <i>Grazing</i>.—In Forest Reserve, 2m. for 300 animals. <i>Supplies</i>.—Grain <i>nil</i>, except with notice. Oxen 2 daily; sheep 10 daily; goats 10 daily. Vegetables (brinjals) on Mondays only. Cross 1 stream, unbridged fordable.</p>
		102m 3f.	<p>GUDIYATAM.—8m. 2f. A small municipal <i>p.t.r.</i> (23,390). town. Metalled roads, fit for motors. At 4m. 7f. pass Gudiyatam railway station, and cross route No. 23 a little further on. Country at first open, then hills on the N. all the way. Cultivated. <i>Camping-ground</i>.—7 acres on right bank of river opposite village, also to N.-E. of village. <i>Water</i>.—Supply abundant, in river, if full; otherwise, for 300 men and 500 animals only. <i>Supplies</i>.—Grain for 750 men and 300 animals 5 days. Oxen 10 (Tuesdays only); sheep 18 daily; goats 10 daily. Vegetables 200 lbs. on Tuesday only. Cross 1 stream, unbridged, fordable. 1m. distant Chennanguppam (1,418). 3m. Pulumuthur (3,547). 5m. Kibaluthur (1,406). 6½m. Sethuramdevi (1,405).</p>
		12	<p>LALAPET.—9m. 0f. A large village, a short (1,278). distance from the town of Satghar. Metalled road, fit for motors. Country hilly,</p>
		111m 3f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	COLLECTOR OF NORTH ARCOT, VELJ GRI.		<p>soil red, open and cultivated. At 4m. cross Satghar river, unbridged, fordable.</p> <p><i>Camping-ground</i>.—7 acres W. of village; also on opposite bank.</p> <p><i>Water</i>.—Scarce; for 100 men and 50 animals only.</p> <p><i>Fuel</i>.—20 headloads daily.</p> <p><i>Grazing</i>.—In Forest Reserve, $\frac{3}{4}$ m. distant, for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men (only) for 1 week. Oxen <i>nil</i>; sheep 10 daily; goats 10 daily. Vegetables: 10 maunds daily.</p> <p>$5\frac{1}{2}$ m. distant Entangal (1,670). $5\frac{1}{2}$ m. Moradupalli (872). 7m. Thethilturamettur (790).</p>
	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	13	
		121m. 4f.	<p>NAYAKANERI.—10m. 1f. A small place. (293). The ascent is 1m, 4f. long, very steep, but is in good condition.</p> <p>Gravelled road, fit for wheeled transport. Very bad for motors. Ascend the Nayakaneri Hill. Country open. At 4m. cross Malar river, unfordable in flood, and 2 streams, unbridged, fordable.</p> <p><i>Camping-ground</i>.—100 acres N. of village and 50 acres close by, within the limits of Nayakaneri.</p> <p><i>Water</i>.—Supply is some way off; when tank is full, enough for 10,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Grazing</i>.—Available within 1m. for 1,000 animals.</p> <p><i>Supplies</i>.—None available.</p> <p>4m. distant Bathalapalli (739).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	14	VENKATAGIRIKOTA.—9m. 1f. <i>Vide</i> Route <i>p.t.</i> No. 28, stage No. 21. Road metalled, some rather steep ascents and descents met with, but is fit for motors. Soil red and stony; country at first hilly; then open and cultivated, jungly in parts. Cross Salman and Bhimanir streams, 50', both fordable.
		130m. 5f.	
DY. COMR. OF KOLAR, KOLAR.	G. O. C. BANGALORE.	15	BETMANGALA.—12m 0f. A large village <i>p.</i> (1,543). on the Palar river, here about 100 yds. wide. Country open, undulating and cultivated. Gravelled road, unfit for motors, soil red; cross the Palar river, bridged, and 1 stream, bridged. <i>Camping-ground.</i> —Good and extensive, W. of village, near a large tank, 150 yds. by 100 yds. <i>Water.</i> —From river, tank 500 yds. by 200 yds. and wells, for 2,000 men and 500 animals. <i>Fuel.</i> —Obtainable with notice. <i>Grazing.</i> —Nil. <i>Supplies.</i> —E. of village, grain as required. Sheep 50; goats 20 with notice. Oxen and vege- tables <i>nil.</i> Pass Pathapulli; Kathrigarkuppa; Hulkur; Dasapalli; Sandrapalaya; Vaddapalli; Narana- palli; Kathur district and population not stated.
		142m. 5f.	
		16	SHAMRAPALLI.—8m. 7f. A small village. (150). Gravelled road; un- fit for motors; fair order. Country as before, soil red. <i>Camping-ground.</i> —N.-W. of village, 20 acres, when uncultivated; also 5 acres close by.
		151m. 4f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Water</i>.—From tanks and wells, sufficient supply.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Grazing</i>.—Grass obtainable $\frac{1}{2}$ m. distant.</p> <p><i>Supplies</i>.—All sorts obtainable with notice. All <i>nalas</i> have culverts. Pass Iyapalli; Gellapalli, Badaamakopalli Patna.</p>
		17	<p>KOLAR.—8m. 1f. <i>Vide</i> Route No. 27, stage <i>b.p.t.</i> No. 18. Metalled and gravelled road, fit for motors. Country as before.</p> <p>3$\frac{1}{2}$m. cross river of Kolar Amuni Keri, bridged; also Ravulakam Kumha.</p>
		159 m. 5f.	
		18	<p>VEMGAL.—8m. 0f. A fairly large village; <i>b.p.</i> (950). 2,450 feet above the sea. Metalled road, fit for motors. Soil dry and rocky; Malur railway station is 16 m. 5f. S.-E. of the dak bungalow. Country open and cultivated.</p> <p><i>Camping-ground</i>.—71 acres S.-E. of village and 6 acres close by.</p> <p><i>Water</i>.—From 3 wells and a tank close by; plentiful in good season.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Grazing</i>.—Hunali grass for any number of animals, can be supplied in 2 or 3 days.</p> <p><i>Supplies</i>.—Grain: <i>rugi</i> and horsegram only in necessary quantities. Oxen 180; sheep and goats 586 each. Vegetables in moderate quantities.</p> <p>6m. distant Talayanda. Cross 1 stream, bridged.</p>
		167 m. 5f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.	19	JANGAMKOTI.—13m. 3f. Metalled road, b.p. (1,877). fit for motors. Drinking troughs at the junction of the roads. Country open and cultivated.
		181m. 0f.	Camping-ground.—800 yds. by 200 yds. N.-W. of village, and 1,500 yds. by 200 yds. close by. Water.—A tank for animals 1½ f. distant; when full, enough for 10,000 men; when wells only are available, for 500 men and 500 animals. Fuel.—4 cartloads.
		20	Grazing.—100 acres within 3m. for 300 animals. Supplies.—Grain (rice) for 500 men and 500 animals for 10 days. Oxen 20; sheep 100; goats 50. Vegetables 200 lbs.
		185 m. 0f.	Route No. 24 is crossed in this stage. 7m. distant Chickondahalli. Cross 2 weirs, bridged. VADIGENHALLI.—4m. 0f. A small town. p. (4,376). Gravelled road, fit for motors. Country open but sparsely cultivated. Cross 2 streams, bridged.
		21	Camping-ground.—72·18 acres S.-W. of village and 20 acres near. Water.—From pond and tank for 500 men and 500 horses. Fuel.—Nil.
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.			Grazing.—30 acres 2m. distant for 500 animals. Supplies.—Grain for 500 men and 500 horses for 2 days. Oxen and vegetables nil; sheep and goats 50 each. ½m. Travellers Bungalow. 2¼ m. Venkatapur.
		192 m. 0f.	DEVANHALLI.—7m. 0f. A small town. b.p.t. (6,330). Road gravelled. Fit for wheeled transport. Country as before. All <i>ulatas</i> have culverts.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping-ground.</i>—103 acres N.-E. and 40 acres near by.</p> <p><i>Water.</i>—From a tank, for 500 men and 500 horses.</p> <p><i>Fuel.</i>—NIL.</p> <p><i>Grazing.</i>—40 acres $1\frac{1}{2}$ m. distant for 300 animals.</p> <p><i>Supplies.</i>—Grain for 500 men and 500 horses for 2 days. Oxen and vegetables <i>nil</i>; sheep add goats, 50 each.</p> <p>$4\frac{1}{2}$ distant Kuruparkunte.</p>
		22	<p>DODBALLAPUR.—13m. <i>Of.</i> Crosses Main <i>b.p.t.r.</i>(7,272). Route No. 6, near stage No. 21.</p> <p>Metalled road, fit for motors. Country open and cultivated. Cross Arkavata River, bridged.</p> <p><i>Camping-ground.</i>—N.-E. of town, 100 acres.</p> <p><i>Water.</i>—Supply scarce.</p> <p><i>Fuel and Grazing.</i>—Nil.</p> <p><i>Supplies.</i>—Except 50 sheep and 20 goats, <i>nil</i>.</p> <p>$4\frac{1}{4}$m. distant Shettiyahalli. $5\frac{1}{2}$m. Samnayasihalli. $6\frac{1}{2}$m. Virvanuthapur. 9m. Birsandra. $9\frac{1}{2}$m. Nagudenhalli. $10\frac{1}{2}$m. Mopurahalli. $11\frac{1}{2}$m. Ragunathipur.</p>
		205 m. <i>Of.</i>	
		23	
		223 m. 2f.	<p>SOMPUR.—21m. 2f. Metalled and gravelled road. First few miles quite unfit for motors. In this stage pass 16 small villages. <i>Follow</i> Main Route No. 4, stages Nos. 22 and 23. Country all cultivation. <i>Nalas</i> have culverts.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.	
Civil.	Military.			
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.	24	TUMKUR.—12 m. 3 f. Metalled and gravelled road, first few miles quite unfit for motors. <i>Vide</i> Main Route No. 4, stages Nos. 22 and 23. Country all cultivated. <i>Nalas</i> have culverts. In this stage, pass 5 small villages. At 8½ m. Kyasandriv (2,162).	
		238 m. 5f.		
		25	GUBBI.—12 m. 0f. A small town. Metalled road, fit for motors. A weekly bazaar now held. Country flat and cultivated. Supplies procurable.	
		250 m. 5f.	<i>Camping-ground</i> .—3 or 4 acres each side of road E. and W. of town. <i>Water</i> .—From large tank and wells, for 4,000 men and animals. <i>Fuel</i> .—50 cartloads. <i>Grazing</i> .—1,100 acres within 1½ m. for 2,400 animals. <i>Supplies</i> .—Grain for 1,000 men and 1,000 animals for 1 month. Oxen and vegetables <i>nil</i> ; sheep 100; goats 50. At 7½ m. and 8½ m. cross irrigation streams, bridged. 10½ m. Singahalli (329).	
		26	DODGUNI.—13 m. 0f. A small village, at the corner of a large tank. Metalled road, fit for motors. Country flat and cultivated. At 5 m. 5f. pass Nittur (<i>b.p.</i>) and cross Route No. 26 there.	
		263 m. 5f.	<i>Camping-ground</i> .—½ m. E. of village, 9·8 acres, and 15 acres close by. <i>Water</i> .—When available, for 600 men and 1,000 animals (wells and tank dry up in hot weather).	

ROUTE NO. 37.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Fuel</i>.—Scarce.</p> <p><i>Grazing</i>.—930 acres 1 m. distant, for 1,000 animals.</p> <p><i>Supplies</i>.—Scarce; grain for 50 men and 50 animals for 5 days. Oxen <i>nil</i>; sheep 20; goats 10. Vegetables in rains only.</p> <p>1 m. cross Tank bund, bridged. 1m. Hevur. 5m. Nittur. 9m. Sopanhalli.</p>
		27	<p>KIBBANHALLRI.—8m. 0f. A small village. Metalled road, fit for motors. At 3m.</p>
		271 m. 5f.	<p>pass Banasandra railway station, Southern Mahratta Railway. Country open and cultivated.</p> <p><i>Camping-ground</i>.—17 acres E. of village, by roadside.</p> <p><i>Water</i>.—From tank and 2 wells, normally for 500 men and 500 animals, but scarce in hot weather.</p> <p><i>Fuel</i>.—Obtainable with notice 5m. distant.</p> <p><i>Grazing</i>.—In Forest Reserve 5m. distant.</p> <p><i>Supplies</i>.—With notice, from 8m. distant: grain for 200 men and 200 animals for 2 days. Sheep 125; oxen, goats and vegetables, <i>nil</i>.</p>
		28	<p>3½m. distant Harenhalli, cross stream, bridged.</p> <p>TIPTUR.—13m. 4f. A large village. Metalled b.p.t.r. (2,531). road, fit for motors. A bazaar is held weekly.</p> <p>Supplies procurable. Country open and cultivated. All <i>nalas</i> have culverts.</p> <p><i>Camping-ground</i>.—No site set aside, but Government waste land W. of village can be used.</p> <p><i>Water</i>.—From tanks and well, except in very dry season, for 400 men and 500 animals.</p>
		286 m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37.
Civil.	Military.		
DY. COMR. TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.	29	<p><i>Fuel</i>.—Obtainable with notice.</p> <p><i>Grazing</i>.—On Government waste land, 1 m. distant, for 300 animals.</p> <p><i>Supplies</i>.—Grain for 600 men and 400 animals for 3 days. Oxen <i>nil</i>; sheep 100 (very dear); goats scarce. Vegetables with notice.</p> <p>4m. distant Kibbanhalli. 5m. Biligere. 6m. Karadi. 7m. Ayarvahalli. 8m. Chavnuhalli.</p>
		292m. 5f.	<p>KONEHALLI.—7m. 4f. Village is about 1m. r. (94). from station. Metalled road, fit for motors. Country open and cultivated.</p> <p><i>Camping ground</i>.—Near station, 28 acres Government waste land. No reserve site.</p> <p><i>Water</i>.—Extremely scarce, hardly enough for local needs.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Grazing</i>.—743 acres, 1 m., for 1,000 animals.</p> <p><i>Supplies</i>.—Grain, for 200 men and 100 animals. Oxen, goats, <i>nil</i>; sheep 150. Vegetables with notice.</p> <p>2m. Kohmehalli. 3m. Mathehalli. 5m. Madihalli. 7m. Marangiri. All <i>nalas</i> have culverts.</p>
DEPUTY COMMISSIONER OF HASSAN.		30	<p>ARSIKERE.—8m. 4f. <i>Vide</i> Route No. 15, stage No. 24.</p>
		301m. 1f.	<p>Country open and cultivated. 3½m. Pensamudra. 6½m. Odihalli. 7½m. Kanyenhalli. Cross a channel, bridged.</p>

ROUTE No. 37 (1).

FROM WALAJABAD TO VANDALUR.

Cross three small streams, unbridged. Road unmade, but practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37 (1).
Civil.	Military.		
COLLECTOR OF CHINGLEPUT SAIDAPET.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	WALAJABAD. <i>p.</i>
		1	ARAKUDAM.—10m. of.
		10m. of.	
		2	VANDALUR.—10m. of. <i>p.</i>
		20m. of.	

ROUTE No. 37 (2).

FROM WALAJABAD TO SANKAVARA'S CHOULTRY.

Cross the Tennairi tank surplus channel, unbridged. A fair-weather road, not made, but as a rule practicable for carts at all seasons.

Direction.—North-North-East.

COLLECTOR OF CHINGLEPUT, SAIDAPET.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	WALAJABAD. <i>p.</i>	
		1	SANKAVARA'S.—10m. of.	On Main Route
		10m. of.	CHOULTRY.	No. IV.

ROUTE No. 37 (3).

FROM BUDIKOTE TO MULBAGAL.

A made road, practicable at all seasons.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 37 (3).
Civil.	Military.		
DY. CMR. OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.		BUDIKOTE.
		1	<i>p.</i> BOWRINGPET.—9m. 0f. <i>p.t.</i>
		9m. 0f.	
		2	BETAMANGALA.—11m. 0f.
		20m. 0f.	
		3	MULBAGAL.—13m. 0f. <i>b.p.</i>
		33m. 0f.	

ROUTE No. 37 (4).

FROM NEAR TIPTUR TO HULIYAR.

A made road.

Direction.—North-North-East.

DEPUTY COMMISSIONER OF TUMKUR.	G O C., BANGALORE.		NEAR TIPTUR.
		1	<i>b.p.t.r.</i>
		11m. 0f.	HONNAVALLI.—11m. 0f. <i>p.</i>
		2	HULIYAR.—22m. 0f. <i>Vide</i> Route No. 40, <i>b.p.</i> stage No. 8.
		33m. 0f.	

ROUTE NO. 38.

FROM POON MALLEE TO SOVAINAHALLI.

Authority and date.—General Officer Commanding, 9th Division, January 1910.

Epitome.—The road is metalled or gravelled and practicable at all seasons as far as Bellary, the unbridged rivers being fordable, except during the rains; a ferry is provided over the Periakuppam river at that season. The remainder of the road is metalled, and, though partly unbridged beyond Gadiganur, is practicable for carts at all seasons, the monsoon in this district being light, and floods on the larger unbridged streams never rendering them impassable for more than a day or two at most.

Total distance 377½ miles.

38 stages.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.	
Civil.	Military.			
COLLECTOR, CHINGLEPUT, SAIDAPET. GENERAL OFFICER, COMMANDING, MADRAS DISTRICT, WELLINGTON.		..	POONAMALLEE.—	<i>Vide</i> Main Route No. 4, stage No. 1.
		1	KORATTUR.—8m. 1f.	A small village. Gravelled road, fit for all transport.
		8m. 1f.	Country cultivated. Camping-ground.—50 acres, E. of village. Water.—From 1 tank, for 100 men and 500 animals. Fuel and Fodder.—Nil. Supplies.—With notice. 2½m. distant Varadarajapuram (349). 4m. Tirumushi (826). 6m. Vellaredo (324). 6m. Canal, 100', bridged. 8m. Karallur.	
		2	TIRUVALUR.—9m. 4f.	Metalled road; as before. Country as before.
		17m. 5f.		

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SAIDAPET.			<p>At 5½ m. pass Tiruvallur railway station and cross the line. Cross the Kuam river, unbridged, 350 yds., by causeway.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—For any number, from ponds and wells.</p> <p><i>Fuel.</i>—Cut, 2 tons stacked.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Available at several days' notice. Vegetables in large quantities.</p> <p>2¼ m. distant Morukanjiri (208). 3½ m. Kovilkuppam (1,856). 4½ m. Aranvaykuppam (1,766). 5½ m. Tirur (1,556). 6½ m. Aranvoyal (1,746). 7½ m. Puttur (725). 8 m. Vengathur (837). 9 m. Periapalam (1,685).</p>
COLLECTOR OF CHITTOOR, CHITTOOR.		3	<p>RAMENJERI.—10m. 2f. A town. Country flat, open and much cultivated. Cross the Cortelliar river, unbridged, 660 yds., fordable. First 5½ m. of road as before, thence mud road, fit for bullock carts.</p> <p><i>Camping ground.</i>—20 acres, E. of village.</p> <p><i>Water.</i>—From 3 wells, for any number.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—A little grazing near.</p> <p><i>Supplies.</i>—Grain for any number with a few days' notice. Oxen <i>nil</i>; sheep 100; goats 50. Vegetables <i>nil</i>.</p> <p>3 m. Tirupannur (2,708). 3½ m. Siruvannur (371). 4½ m. Kuppamma Chothran (520). 5½ m. Pandur (1,139). 7 m. Krishnapuram.</p>
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		4	
		47m. 7f.	<p>TIRUTANI.—15m. 0f. A small town. Gravelled road, good condition, fit for motors. Country as before. Cross 2 streams unbridged, sandy beds, fordable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground.</i>—3 acres, close to Tirutani hills. <i>Water.</i>—From 1 well only, for 200 men and 200 animals. <i>Fuel.</i>—20 tons stacked. <i>Fodder.</i>—Grazing for 200 animals 1m. S. of town. <i>Supplies.</i>—All sorts, for 100 men and 100 animals for 1 day. Vegetables for 50 men.</p>
		5	<p>NAGARI.—9m. 0f. A small town. Road as <i>p.r.</i> (4,000'). before. Country open and well cultivated. There is a railway station here. Cross the Nandyal and Khushasthali rivers, unbridged, both fordable. <i>Camping-ground.</i>—130 square yds., N. of town. <i>Water.</i>—From 10 wells and 2 small tanks, for 1,000 men and 500 animals. <i>Fuel.</i>—With notice, head loads daily. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Grain for 500 men and 200 animals for 15 days, with previous notice. Oxen <i>nil</i>; sheep 200; goats 200. Vegetables for 500 men for 5 days. 4m. distant Ponpadi (1,000). 7m. Thedukupet (850).</p>
		51m. 7f.	
		6	<p>PUTTUR.—8m. 1f. A small town; 250 <i>p.r.</i> houses, 20 shops, and extensive ground in every direction. Road metalled as before. The ascent and descent of the hill is easy. Country hilly and covered with bamboo jungle about the pass, afterwards gradually richly cultivated. A railway station here. Cross a pass.</p>
		60m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR. GENERAL OFFICER COMMANDING, MADRAS, DISTRICT WELLINGTON.		7	<p><i>Water</i>.—For 300 men and 100 animals. <i>Fuel</i>.—Unlimited, with notice. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 200 men and 100 animals for 1 week, with notice. Oxen <i>nil</i>; sheep 200; goats 200. Vegetables <i>nil</i>.</p>
		68m. 3f.	<p>WARAMALIPET.—8m. 3f. A large place, or MAHARAJA-BAHA- with 15 shops. DURPET (1,500). Road gravelled, unfit for motors. The hill is about 2m. 6f. long, ascent and descent gentle, but stony and difficult; extensive jungle about the pass. Country hilly, but richly cultivated. Pudi railway station near this; almost all supplies are available. Cross 9 streams, either bridged or fordable. Cross a pass. <i>Camping-ground</i>.—130 sq. yds. W. of place; also 300 yds. N.-E. of it. <i>Water</i>.—From tanks, <i>nala</i>, and 10 wells, for 1,000 men and 500 animals. <i>Fuel</i>.—With notice, 100 headloads daily. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain with notice, for 200 men and 100 animals for 10 days. Oxen <i>nil</i>; sheep 100; goats 100. Vegetables <i>nil</i>.</p>
		8 77m. 4f.	<p>KARAKAMBADI.—9m. 1f. A small place. (2,000). Road metalled, fit for motors. Country open and cultivated; Renigunta railway station is close by, on S.-W. Cross the Swarnamukhi river, unbridged, at 4m.; 600' difficult to cross in rains. Route No. 43 crosses here.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Camping-ground.</i>—Extensive to N.-E. <i>Water.</i>—From a tank, which is dry in hot weather; also wells, for 300 men and 300 animals. <i>Fuel.</i>—To a limited extent. <i>Fodder.</i>—Grazing for 600 animals 1m. from village. <i>Supplies.</i>—Grain for 500 men and 500 animals for 10 days. Oxen <i>nil</i>; sheep 200; goats 200. Vegetables <i>nil</i>.</p>
		9	<p>BALAPALLI.—11m. 0f. Only a few huts. Gravelled road, unfit for motors and wheeled traffic. Country hilly and jungly. Soil red. <i>Camping-ground.</i>—Nil. <i>Water.</i>—From a tank; supplies scanty. <i>Supplies.</i>—Only a few, hardly suffice for local needs. Sheep and goats, <i>nil</i>.</p>
COLLECTOR OF CUDDAPAH, CUDDAPAH.		88m. 4f.	
		10	<p>KODUR.—13m. 1f. A town, 323 houses, p.r. (6,600). railway station. Road metalled, unfit for motors in this stage, rises with a very easy gradient from Balapalli. Country jungly as far as Settigunta (5,431), 5m. 5f., then open; hill not difficult. At 12½ m. cross the Ganjana river, unbridged, and ascend a hill. River 200' wide, fordable, except during heavy rains, ordinarily 1½' deep, floods subside very quickly. <i>Camping-ground.</i>—Good and extensive, when crops are cut, to N.-W., 100 acres. <i>Water.</i>—From the Gunjana river; also 10 wells; ample supply.</p>
		101m. 5f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		11	<p><i>Fuel</i>.—Unlimited, from Forest Depot, with notice.</p> <p><i>Fodder</i>.—Grazing, 500 acres, W. of town.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 1,000 animals for 1 week. Oxen <i>nil</i>; sheep 500; goats 100. Vegetables scarce and difficult to obtain.</p>
		111m. 5f.	<p>ORAMPAD.—10 m. 0f. A small town, with 158 houses and 2 shops. Road as before. Soil red, country open and cultivated.</p> <p><i>Camping-ground</i>.—Extensive, to N.-E.</p> <p><i>Water</i>.—From a tank and 10 wells.</p> <p><i>Fuel</i>.—<i>Nil</i>.</p> <p><i>Fodder</i>.—200 acres grazing, 1 mile from town.</p> <p><i>Supplies</i>.—Grain for 100 men and 1,000 cattle for 1 week. Oxen and vegetables <i>nil</i>; sheep 500; goats 500.</p> <p>1 m. Mushtiyur River, 200', unbridged, fordable, no water in dry season. 1½ m. Raghararajapuram (1,335). 2 m. Ganjavapuram (149). 3½ m. Anantarajapet (4,379). 3 m. Gundalageru river, 200', unbridged, fordable, 1½' of water. 5 m. Mangampet (658). 9½ m. Tamula and Yeru river, 100', 1' deep, fordable, except after heavy rains.</p>
		12 121m. 7½f.	<p>UTUKOR.—10 m. 2½f. A large village, on high ground. Road as before. Country generally flat, open and cultivated to Reddipalli tank, thence low scrub jungle. At 5½ m. pass Reddipalli railway station; Rajampet railway station is about 4½ m. from here.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping-ground.</i>—Several good sites in the vicinity, when crops are cut, usual site S. of village.</p> <p><i>Water.</i>—For 1,000 men and 1,000 animals. Tank is dry, except after rains.</p> <p><i>Fuel.</i>—From Pullampet, cut, 10 tons stacked.</p> <p><i>Fodder.</i>—Grass lands in vicinity.</p> <p><i>Supplies.</i>—Grain for 500 men for 2 days; for animals <i>nil</i>. Oxen 20; sheep 50; goats 20. Vegetables in small quantities.</p>
		13	<p>NANDALUR.—8 m 6 f. A large village of about 500 houses. Railway station.</p> <p>Road as before. Cross the Cheyar river, unbridged, $\frac{1}{2}$ m. wide; fordable, except in flood, no boats. Country undulating and cultivated.</p> <p><i>Camping-ground.</i>—Extensive, on left bank of the Cheyar, S. of the village, 4 acres.</p> <p><i>Water.</i>—Large tank 2 m. away. dry in hot weather, also railway pump and 2 wells.</p> <p><i>Fuel.</i>—15 tons, in Forest Depot.</p> <p><i>Fodder.</i>—Grass for 300 animals</p> <p><i>Supplies.</i>—Grain for 500 men for 2 days; for animals <i>nil</i>. Oxen, goats and vegetables <i>nil</i>; sheep 50.</p> <p>3½ m. distant Rajampet (5,931) R. S.</p> <p>4½ m. Mamur (4,000). 8½ m. Gundlur (1,284).</p>
		130m. 5½ f.	
		14	<p>VONTIMITTA.—11 m. 2¼ f. A large village of about 600 houses and 25 shops. The railway station is ½ m. distant. Road as before, but fit for motors throughout stage. Country jungly.</p>
		142m. 0½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		19	<p>CHILAMKUR.—8 m. 0 f. 100 houses, 6 shops. (2,361) Road fit for motors in this stage. Country as before; soil chiefly black; dry cultivation. At 3½ m. pass Yerraguntla railway station, where Route No. 46 joins.</p> <p><i>Camping-ground.</i>—Sufficient for 2 or 3 regiments, between the village and 2 <i>nalas</i> W. of it, 50 acres S. and 50 acres N. of road.</p> <p><i>Water.</i>—From Pedavanka, for any number.</p> <p><i>Fuel and Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—No grain or vegetables available. Oxen 200; sheep 300; goats 200.</p>
		185m. 5½ f	
		20	<p>YAMAWARAM.—8 m. 3 f. A small village. Road metalled, but unfit for motors. Country flat and open; soil partly black cotton, partly gravel; Muddanur railway station is 2 m. E. of village.</p> <p><i>Camping-ground.</i>—10 acres, high but stony, to S.-E. of village.</p> <p><i>Water.</i>—From 10 wells, for any number.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—A little grazing 2 m. away.</p> <p><i>Supplies.</i>—Grain from Muddanur, for 500 men for 2 days. Oxen and vegetables <i>nil</i>; sheep 500; goats 50. 1½ m. Timpuram (385). Muddanur (1,526). 5 m. stream, unbridged, fordable. Between 1 and 1½ m. cross 2 streams, bridged, and 1 unbridged, fordable.</p>
		194m. 0½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	21	<p>GUNDALUR.—11 m. 5 f. 100 houses. Road as before, stony in places, and road passes through a narrow cultivated valley. The Chitravati river joins the Penad river close to this place; Kondapura railway station is $\frac{1}{2}$ m. S. Country mostly open.</p> <p><i>Camping-ground</i>.—37 acres W. of village, high, sandy, and dry.</p> <p>Extensive ground also on other side of river.</p> <p><i>Water</i>.—From channel and 2 wells, for any number.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing within 2 m.</p> <p><i>Supplies</i>.—Grain for 100 men for 1 day. Sheep 10; goats 10; oxen and vegetables <i>nil</i>.</p> <p>At about 1 m. several small streams, unbridged, easily fordable. At about 8 m. several small streams, stone bridges.</p>
		205 m. 5½ f.	
COLLECTOR OF ANANTAPUR, ANANTAPUR.	G. O. C., BANGALORE.	22	<p>BONDALDINNA.—9 m. 3 f. Gravelled road as before. A small river close to the Pennar river, which runs parallel to the road. Black soil nearly all the way; country a dead flat, with much dry cultivation. The river is a wide one, with a heavy sandy bed. Cross the Chitravati river, unbridged.</p> <p><i>Camping-ground</i>.—Nil.</p> <p><i>Water</i>.—From spring, unlimited.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Must be collected, on requisition from neighbouring villages.</p> <p>1½ m. distant Chotipala. 4½ m. Gargapuram.</p>
		215 m. 0½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.	23	6 m. Thallaponothur. 8 m. Sugumanillipalli.
		226 m. 3½ f.	CHUKKALUR.—11 m. 3 f. Country cart road, (1,139). fit for wheeled transport only; very bad in wet weather. Pennar river is 2 m. S. of village. Country flat, open and cultivated. At 5 m. pass Tadpatri, a fairly large place and railway station (11,275). Cross the Pennar river here, a heavy pull across a white, sandy bed, unbridged, fordable. Route No. 34 joins here. Cross 6 <i>nalas</i> , unbridged, fordable and 12 bridged.
		24	<i>Camping-ground</i> .—166 × 152 yds., W. of village. <i>Water</i> .—From river, unlimited supply. <i>Fuel, Grazing</i> .—Nil. <i>Supplies</i> .—With notice, as required.
		236 m. 4½ f.	VAMALPADU.—10 m. 1 f. A small village of (1,395). about 150 houses. Cart road, fit for wheeled transport; sandy and bad in wet weather. Country open and cultivated. <i>Camping-ground</i> .—Very good, high and extensive to E. and N., 267 × 166 yds. <i>Water</i> .—From a <i>nala</i> spring, unlimited supply. <i>Fuel and grazing</i> .—Nil. <i>Supplies</i> .—With notice, from 2½ m. distant. 2¾ m. Iyadur (734). Cross 2 streams, bridged, and 2 unbridged, fordable
		25	JAKKALACHERU.—10 m. 7 f. Small village and fort. Metalled road, fit for all transport. Country as before.
		248 m. 3½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping-ground</i>.—5 acres, S. of village <i>Water</i>.—From 1 well, for 100 men and 20 animals. <i>Fuel</i>.—Scarce. <i>Fodder</i>.—Grazing for 100 animals. 1 m. from village. <i>Supplies</i>.—Grain and vegetables <i>nil</i>. Oxen 20; sheep 20; goats 10. 1½ m. Ravalchinnur. 5 m. Kristipur (2,671). 7 m. Appechla (1,998). 7½ m. stream, 33', fordable, except in flood.</p>
		26	<p>GOOTY.—7 m. 2 f. <i>Vide</i> Main Route No. VI. p. t. r. stage No. 34. Road and country as before. At ½ m. stream, 22 yds., fordable. 2 m. Thadapuda (771). 5 m. Khutapuda (897).</p>
		255m. 5½f.	
		27	<p>PATHAKOTHA.—9 m. 3 f. A small village; railway station. CHERUVU. r. (1,097). Road as before. Country open and surrounded by hills.</p>
		265m. 0½f.	<p><i>Camping-ground</i>.—1 furlong E. of village, when crops are cut. <i>Water</i>.—From wells and tank, for 200 men and 200 animals. <i>Fuel</i>.—500 lbs., with notice. <i>Fodder</i>.—Nil. <i>Supplies</i>.—Grain for 200 men and 200 animals for 1 day. Oxen and vegetables <i>nil</i>; sheep 100; goats 50.</p>
		28	<p>GUNTAKAL.—9 m. 5 f. A large village; railway junction 2 m. off; ground red and gravelly. Road fit for motors, as before. Country as before.</p>
		274m. 5½f.	

AUTHORITIES.

Civil. Military.

No.
of
stage
and
total
distance.

ROUTE NO. 38.

COLLECTOR OF ANANTAPUR, ANANTAPUR.

COLLECTOR OF BELLARY,
BELLARY.

GENERAL OFFICER COMMANDING, BANGALORE.

29

284 m.
6 f.

Camping-ground.—For 1½ Divisions. N.-W. of town.
Water.—From a small tank and 3 wells within 300 yds. ; supply for men and animals of 1½ battalions.
Fuel.—Scarce.
Fodder.—Nil.
Supplies.—Grain for men and animals of 2 battalions for 1 week. Oxen nil ; sheep 50 ; goats 50.
 Vegetables, small quantities at Sunday market.

GADAKAL.—10 m. 0½ f. A small village.
 (1,000). Road and country as before ; soil red.

Camping-ground.—Low, ½ furlong from village, large enough for 1 infantry brigade, 1 regiment cavalry, 1 battery Royal Field Artillery.

Water.—In the rainy season, from a tank ½ f. distant ; at other times from a well ; at all times scarce.

Fuel.—Nil.

Fodder.—Up to 25 maunds.

Supplies.—Grain for small parties only. A few oxen and goats ; sheep and vegetables nil.

30

295 m.

5½ f

PARAMADAVANHALLI.—10 m. 7½ f.
 b. Vide Route No. 23, stage No. 32.

Road and country as before.

31

BELLARY.—9 m. Vide Route No. 18, stage b.p.t.r. No. 34. Cross the Hugri R., unbridged. Road and country as before.

304 m.

5½ f.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	32	KUDATINI.—11 m. 6 f. <i>Vide</i> Route No. 18. b.p. stage No. 35. Road and country as before.
		316 m. 3½ f. 33	GADIGANUR.—12 m. 2 f. Metalled road and b.p.t. (1,355). country as before. A railway station here. Cross 3 bridged and 2 unbridged <i>nalas</i> , soil black. 5½ m. Tornugulla (1,370). 10½ m. Burnanahalli (315).
		328 m. 5½ f.	<i>Camping ground</i> .—Good; W. of village, 770 yds. by 308 yds.
			<i>Water</i> .—From 10 wells, for 1,000 men and 500 animals.
			<i>Fuel</i> .—From Forest Reserve 1 m. away.
			<i>Fodder</i> .—Grazing for any number of animals in Forest Reserve.
			<i>Supplies</i> .—Grain for 1,000 men and 1,000 animals for two days. Oxen 400; sheep 400; goats 500. Vegetables nil.
		34	PAPINAYAKANAHALLI.—8 m. 0 f. Road t.c. (1,064). and country as before. A railway station here. Soil, red or black loam mixed.
		336 m. 5½ f.	<i>Camping ground</i> .—1 m. E. of village, high and dry but stony, 990×396 yds. There is a confined camping ground in a cultivated valley close to and S. of the village.
			<i>Water</i> .—From 2 wells and 2 tanks, for 1,000 men and 1,000 animals.
			<i>Fuel and Fodder</i> .—From Forest Reserve ½ m. from camp.
			<i>Supplies</i> .—Grain for 1,000 men and 1,000 animals for 2 days. Oxen 350; sheep 200; goats 25. Vegetables nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.		2 m. Bharmasugaram (519). $4\frac{1}{2}$ m. Birjevuladigeri (746). Cross several small <i>nalas</i> and stone bridges.
		35	HOSPET.—7 m. 0 f. Road and country as before. Railway station here. Routes
		343 m. $5\frac{1}{2}$ f.	Nos. 42 and 44 cross. <i>Camping ground</i> .—High and dry and very good; close to town. <i>Water</i> .—Sometimes scarce, from wells and the Tungabhadra Channel, $\frac{1}{2}$ m. distant. <i>Supplies</i> .—Grain for 1,000 men and 1,000 animals. Oxen 20; sheep 100; goats 100. Vegetables, 20 baskets daily. Headquarters of Head Assistant Collector, Tahsildar and Police Inspector. 2 m. Vandrahalli (240). Cross 4 <i>nalas</i> , stone bridges.
		36	BALLAHUNISI.—12 m. 3 f. Country, open and cultivated. Metalled road, fit
		356 m. $0\frac{1}{2}$ f.	for motors. Soil sandy and red. <i>Camping-ground</i> .—High, 1 m. N.-E. of village, 32.68 acres and 20.26 acres. <i>Water</i> .—Good supply, from wells and a <i>nala</i> . <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Grazing: 56 acres close by for 1,500 animals. <i>Supplies</i> .—Grain, oxen and vegetables <i>nil</i> . Sheep 150; goats 100. The Chinna Hagri R. at 344 m. $7\frac{1}{2}$ f. is sometimes not fordable during rainy season; it is nearly dry by 1st January; bridged. Cross the Tungabhadra Channel bridged. $3\frac{1}{2}$ m. Gowapur (519).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	37	HAMPASAGAR.—13 m. 5 f. Metalled road; fit for motors. Country as before.
		369 m. 5½ f.	<i>Camping-ground</i> .—Within 3 m. of village, 23·16 acres N.-E. of village, and 10·46 acres close by; suitable for large force. <i>Water</i> .—Abundant supply from river; <i>nala</i> near Hampasagar has rocky bed, steep banks and good supply of water. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing: 1,094 acres close to village for 2,000 animals. <i>Supplies</i> .—Grain for 6,000 men and 1,000 animals for 10 days. Oxen 5; sheep 100; goats 100. Vegetables <i>nil</i> . 1½ m. Bommupasudram (722). 10 m. Basarakodari (610). 12 m. Zeni (883). Cross the Chinna Hagri river and 3 <i>nalas</i> , unbridged; floods may cause short delay.
		38	SOVAINAHALLI.—8 m. 0½ f. A fair-sized village, on the bank of the river. Metalled road, fit for motors. Country cultivated. Floods sometimes hold up traffic.
		377 m. 6 f.	<i>Camping-ground</i> .—23·16 acres N.-W. of village, and 10 acres close by. <i>Water</i> .—From Tungabhadra channel, close by (2f.), for 10,000 or more men. <i>Fuel</i> .—Obtainable. <i>Grazing</i> .—1,350 acres 1½ m. away, for 3,000 animals. <i>Supplies</i> .—Grain, oxen and vegetables <i>nil</i> . Sheep 150; goats 30. Cross 8 streams, unbridged; backwater at ½ m. may give trouble in flood. 2½ m. Kalvi (751). 4 m. Hakandi (570). 7 m. Madlapur (1,066).

ROUTE No. 38 (1).
FROM TIRUVATUR TO PERIVOIL.

Cross the Narnavaram and Cortelliar Rivers, unbridged. A fair-weather track only, unmetalled and unbridged, except for the first 4 miles.

Direction.—North-East by East.

AUTHORITIES		No. of stages and total distance.	ROUTE NO. 38 (1).
Civil.	Military.		
COLLECTOR OF CHINGLEPUT, SAIDAPET.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TIRUVATUR.
		1	PERIVOIL.—21 m. 0 f.
		21m. 0f.	

ROUTE No. 38 (2).
FROM TIRUTANI RAILWAY STATION TO RAMKIST-NARAJAPET.

Cross the Tirutani river, unbridged. Road metalled and bridged throughout, except the Tirutani.

Direction.—West.

COLLECTOR OF CHITTOOR; CHITTOOR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	TIRUTANI (RAILWAY STATION). <i>p.r.</i>
		1	RAMKISTNARAJAPET.—10 m. 7 f.
		10m. 7f.	(NEAR SHOLINGAWERAM).

ROUTE No. 38 (3).

FROM PUDI RAILWAY STATION TO CHANDRAGIRI.

Cross the Swarnamukhi river, unbridged. Road gravelled for 6 miles, the rest metalled; the smaller streams are also unbridged.

Direction.—West by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38 (3).
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PUDI.— (RAILWAY STATION).
		1	CHANDRAGIRI.—19 m. 4 f. <i>p.t.</i>
		19m. 4f.	

ROUTE No. 38 (4).

FROM PUDI RAILWAY STATION TO TIRUPATI.

Cross the Swarnamukhi river, unbridged. Road gravelled and the smaller streams bridged.

Direction.—North-West.

COLLECTOR OF CHITTOOR, CHITTOOR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PUDI (RAILWAY STATION).
		1	TIRUPATI.—9 m. 4 f. <i>p.t.r.</i>
		9m. 4f.	

ROUTE No. 38 (5).
FROM VADAMALAPET TO KALAHASTI.

Road bad.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38 (5).
Civil.	Mili- tary.		
COLLECTOR OF CHITTOOR, CHITTOOR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		..	VADAMALAPET.— A large village, with 15 <i>p.</i> shops; good camping ground 300 yds. N.-E. of village; abundant water from a tank $\frac{1}{4}$ m. N. of village and from numerous wells near the camping ground; country hilly; soil red; road sandy and indifferent; the pass before entering the place is 2 m. 6 f. in length, of easy ascent and descent, but very stony and jungly; almost all supplies available.
		1	VIRAPURAM.—10 m. 4 f. 20 houses; camp- ing ground good, but sandy, $\frac{1}{4}$ m. S.-W. of village, sufficient for 2 regiments; water from river, 300 yds. distant; country hilly; soil red; road sandy and very bad; supplies scanty. Cross the Swarnamukhi R., unbridged.
		10m. 4f.	
		2	KALAHASTI.—9 m. 2 f. Cross the Swarna- <i>p.t.r.</i> mukhi R., unbridged.
		19m. 6f.	

ROUTE No. 38 (6).

FROM KODUR TO GUDUR.

Epitome.—Cross the Gunjama and Venkatagiri rivers and two small streams, unbridged. This road leads from Kodur into the Nellore District by the Changelati Kanama pass; there is a fair-weather cart track to the foot of the pass, which is 6 miles from Kodur; the pass itself is 6 miles long, and is practicable for foot passengers and pack animals only, being unmade and very narrow throughout with steep gradients; from the foot of the pass on the east side to Venkatagiri, is a distance of 8 miles; the road over this is not made, but is a fair-weather track; from Venkatagiri to Gudur, the road is a good one, and is partially bridged.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38 (6).
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	KODUR. <i>p.r.</i>
		1	VENKATAGIRI.—20 m. 0 f. <i>p.r.</i>
		20m. 0f.	
		2	GUDUR.—24 m. 7 f. <i>b.p.t.r.</i>
		44m. 7f.	

ROUTE No. 38 (7).
FROM PULLAMPET TO PODALAKUM.

Epitome.—Cross the Pulangar, Gunjama and Venkatagiri rivers, unbridged. This is a road leading into the Nellore district by the Rapur pass; a made road exists as far as Chitvel, thence to the foot of the pass, 3 miles, there is a rough track; the pass itself is $6\frac{1}{4}$ m. long; parts of it were made some years ago, but the difficult pieces were left undone; a fair-weather track leads from the foot of the pass to Rapur; $4\frac{3}{4}$ miles from thence to Gudur, there is a good made road, partially bridged; the Venkatagiri river is about 100 yards wide with a sandy bed, impassable for a short time after heavy rain in the hills.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38 (7).
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	PULLAMPET. (NEAR UTKUR). p.
		1	CHITVEL.—11 m. 0 f. p.
		11m. 0f.	
		2	RAPUR.—14 m. 0 f. p.
		25m. 0f.	
COLLECTOR OF CUDDAPAH, CUDDAPAH.		3	PODALAKUM.—18 m. 0 f.
		43m. 0f.	

ROUTE No. 38 (8).

FROM VONTIMITTA TO NELLORE.

Epitome.—Cross the Cheyar and Penner rivers and a few small streams, unbridged. This is a road leading into the Nellore district by the Somasilla pass; for 11 miles the road is a good one, the next 12 miles to the western end of the hill is a mere track, crossing the Cheyar and Penner rivers, which are frequently flooded; the pass is only 2½ miles long, but is unmade and practicable for foot-passengers and pack animals only; from the eastern end of the hill to Nellore the road is not in good order, and though a few unbridged streams are crossed, they are all fordable at all seasons.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38 (8).	
Civil.	Military.			
COLLECTOR OF NELLORE, COLLECTOR OF CUDDAPAH, CUDDAPAH, NELLORE.	G. O. COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	VONTIMITTA.	
		1	KURKANTAPALLI.—11 m. 0 f.	
		11 m. 0 f.		
		2	KALVOY.—23 m. 0 f.	
		34 m. 0 f.		
		3	PODALAKUM.—21 m. 0 f.	
		55 m. 0 f.		
		4	NELLORE.—18 m. 0 f.	Vide Main Route No. III, stage No. 9.
		73 m. 0 f.		

ROUTE No. 38 (9).

FROM VONTIMITTA TO SIDHOUT.

Cross the Penner river, unbridged. Road partially gravelled and bridged; crosses a short hill of easy gradients; always practicable, except when the Penner is in flood.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 38 (9).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C. DISTRICT, MADRAS DISTRICT, WELLING. ON.	..	VONTIMITTA.— <i>p.r.</i>
		..	SIDHOUT.—7 m. 7½ f.

ROUTE No. 38 (10).

FROM HOSAHALLI TO GOWRIPUR.

Road neither metalled nor bridged, but traversing red and gravelly soil; it is practicable for carts at all seasons, the monsoon being light in this district.

Direction.—North.

COLLECTOR OF BELLARY, BELLARY.	G. O. C., BANGALORE.	..	HOSAHALLI. <i>p.</i>
		1 8m. 4 f.	BANIVIKALLU.—8 m. 4 f.
		2 20m. 0 f.	KUDLIGI.—11 m. 4 f. <i>p.</i>
		3 32 m. 0 f.	BYCHILKANAHALLI.—12 m. 0 f.
		4 43m. 4 f.	GOWRIPUR.—11 m. 4 f. (5 m. beyond Hospet).

ROUTE No. 39.

FROM PANIMANGALORE TO NEIAMANGALA.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—Direction due E. This road is either metalled or gravelled throughout, and is bridged, with the exception of the rivers at Panimangalore and Uppinangadi, where, however, ferries are available. The Panimangalore river is fordable for about 4 months during the dry weather. The gradients of the road in the South Kanara district vary from 1 in 18 to 1 in 20.

Total distance 190½ m. 19 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	PANIMANGALORE.— <i>Vide</i> Route No. 19, b.,p.p. Stage 39.
		1 6m. 2f.	MANI.—6 m. 2 f. A small village. Metalled (550'). road, fit for motors. Country hilly, with cultivation. All streams bridged. <i>Camping-ground.</i> —100 acres, hilly; 50 acres N.-E. of village can be used; also 15 acres close by. <i>Water.</i> —June to January, from a well attached to the shed; remainder of year very scarce, from spring ½ m. distant. <i>Fuel.</i> —Obtainable. <i>Grazing.</i> —25 acres close by, for 3,000 animals. <i>Supplies.</i> —Grain for 500 men and 500 animals for 1 week. Oxen 10; goats 20; sheep and vegetables <i>nil</i> . Route 41 leaves a little further on.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39.
Civil.	Mili- tary.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	2	UPPINANGADI.—10 m. 1 f. A large village, with bazaar. Metalled road, fit for motors. Country, rocky, cultivated in parts. All <i>nalas</i> are bridged.
		16m. 3 f.	<i>Camping-ground</i> .—11·84 acres N. of village, and 22·63 acres near by. <i>Water</i> .—For 2,000 men and 2,000 animals from Netravati river in hot season, and from wells during monsoon. <i>Fuel</i> .—10 cartloads. <i>Fodder</i> .—200 acres within 1 m., for 2,000 animals. <i>Supplies</i> .—Grain for 2,000 men and 1,000 animals for one month. Oxen 20; sheep <i>nil</i> ; goats 75. Vegetables, 25 headloads in January and February and August to December. Pass Kantila (1,210), Bajathur (1,728), Hirebandari (1,591), and Nilikiladi (686). Cross the Kumaradhary river, unbridged at Uppinangadi; two boats available.
		3	GOLITATTU.—9 m. A small village. (676). Metalled road, fit for motors. Country rocky and wooded; jungly with patches of cultivation. All <i>nalas</i> are bridged.
		25m. 3 f.	<i>Camping-ground</i> .—1·98 acres S. of village, and ample space close by. <i>Water</i> .—From stream, for 2,000 men and 2,000 animals. <i>Fuel</i> .—10 cartloads. <i>Grazing</i> .—693 acres close by, for 7,000 animals. <i>Supplies</i> .—Grain for men only; 2,000 for 2

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		days. Oxen, sheep and goats <i>nil</i> . Vegetables 25 headloads, in January, March, August and December.
		4	SIRADL.—12 m. 1 f. A very small village.
		37 m. 4 f.	<p><i>p.</i> Metalled road, fit for motors. Jungle country.</p> <p><i>Camping-ground</i>.—5·90 acres S. of village, and 5 acres near.</p> <p><i>Water</i>.—From a stream, available for any number of men and animals.</p> <p><i>Fuel</i>.—From Forest Reserve near.</p> <p><i>Fodder</i>.—Grazing: 20 acres close by.</p> <p><i>Supplies</i>.—Grain for 300 men and 100 animals for two days. Oxen, sheep and goats <i>nil</i>. Vegetables for 50 men.</p> <p>1 m. Kanalu (528). 3 m. Wekayavi (1,206). 4 m. Kavkradi (947). 7 m. Iehlampair (463). 9 m. Rekya (365). All <i>nalas</i> and streams are bridged.</p>
		5	GUNDIA.—4 m. 4 f. A very small village
		42 m. 0 f.	<p>(478). Metalled road, fit for motors. Jungle country and hilly.</p> <p><i>Camping-ground</i>.—Good; 10 acres S.-E. of village and 5 acres near.</p> <p><i>Supplies</i>.—<i>Nil</i>.</p> <p><i>Water</i>.—From the river, unlimited.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing; 10 acres close by, in Forest Reserve. Road has short ascents and is hilly in places.</p> <p>4½ m. Shiravi (478). 1 m. Shirivaglo (118). All streams and <i>nalas</i> are unbridged.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39.
Civil.	Military.		
DEPUTY COMMISSIONER OF HASSAN, HASSAN.	GENERAL OFFICER COMMANDING, BANGALORE.	6	KEMPRAL.—7 m. Metalled road, fit for motors. Country thick jungle, hilly and feverish. Cross 2 streams, bridged. <i>Camping-ground.</i> —Nil. <i>Water.</i> —Abundant. <i>Fuel.</i> —Obtainable from Forest Reserve. <i>Fodder.</i> —200 acres grazing in Forest Reserve, for 500 animals for 1 week. <i>Supplies.</i> —Nil.
		49 m. 0 f.	
		7	MARNAHALI —8 m. 1 f. A small scattered village. Metalled road, fit for motors. Country thick jungle. Top of the hill is $\frac{1}{2}$ m. from Marnahalli up to which ascent is continuous; the gradient is nowhere steeper than 1 in 19. <i>Camping-ground.</i> —No regular one; but about 20 acres E. of village can be used. <i>Water.</i> —Plentiful at all seasons. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing 2,000 acres $\frac{1}{2}$ m. distant, for 1,000 animals for 1 week (cold weather only). <i>Supplies.</i> —Nil. Cross 1 stream. Streams and <i>nalas</i> bridged.
		57 m. 1 f.	
		8	SAKLASPUR.—10 m. 0 f. A large village; chief village of the sub-district; Amildar's court-house. Metalled road, fit for motors. Thick jungle to 6th milestone, thence open. Cross Yethinahalli stream, $2\frac{3}{8}$ m., bridged. If required, troops could halt at Banavasi.
		67 m. 1 f.	

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 39.
Civil.	Military.		
DEPUTY COMMISSIONER OF HASSAN, HASSAN.			
GENERAL OFFICER COMMANDING, BANGALORE.			
		9	<p>5 m. from Palya. Roads have been made from Saklasapur to Maddagiri and Belur. Manjarabad is passed at 6½ m.</p> <p><i>Camping-ground</i>.—High, on side of hill ½ m. E. and ½ m. W. of village.</p> <p><i>Water</i>.—Unlimited; from small tanks on Hemavati river, crossed by iron girder bridge at Saklasapur.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing, in cold weather; 100 acres within 1 m. for 500 animals for 1 week.</p> <p><i>Supplies</i>.—Grain for 100 men and 100 animals for 3 days; other supplies <i>nil</i>.</p> <p>1½ m. Outangadi. 6 m. Donugul. 8 m. Aneinshal (280). 9 m. Motada Gaddi. Cross Yetharahalli stream and 91 <i>nalas</i>.</p>
		79 m. 1 f.	<p>PALYA.—12 m. <i>of Ital</i>. A large place. <i>b.p.</i> Metalled road, fit for (421). motors. Country, coffee estates and wooded jungle. Soil red and sandy. Cross Hemavathi river, bridged, just beyond Saklasapur.</p> <p><i>Camping-ground</i>.—Good; 33·29 acres W. of village.</p> <p><i>Water</i>.—From a well and 2 tanks, plentiful.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 250 acres at ½ m., for 1,000 animals.</p> <p><i>Supplies</i>.—Only grain available for 1,000 men for 2 days.</p> <p>2 m. Kolhalli. 3½ m. Matsagur. 4½ m. Gulgalali. 7½ m. Ballu.</p>

AUTHORITIES.

Civil. Military.

No.
of
stage
and
total
distance.

ROUTE NO. 39.

DEPUTY COMMISSIONER OF HASSAN, HASSAN.

GENERAL OFFICER COMMANDING, BANGALORE.

10

91 m. 1 f.

HASSAN.—12 m. 0 f. A large town; head-
b.p.t. (6253). quarters of thedistrict. Metalled
road, fit for motors.Country at first hilly and jungly; then un-
dulating and cultivated. Route No. 40 joins
here. Cross Hemavathi river at 1½ m. and
Yagachi river 7½ m., both bridged.*Camping-ground*.—High and open, ¼ sq. m.
E. of town.*Water*.—Plentiful supply from tanks, for 2,000
men and 2,000 animals.*Fuel*.—Nil.*Fodder*.—Grazing: 305 acres, 3 m. distant, for
500 animals.*Supplies*.—Grain for 2,000 men for 1 week; for
animals nil. Oxen 10; sheep 20; goats 20.*Vegetables* nil.

½ m. Kanadahalli. 2 m. Bachanahalli. 3 m.

Byrapur. 4 m. Chevalgire. 4½ m. N. valagere.

6½ m. Baratvalli. 7 m. Theimmanhalli. 8½ m.

Kandhy. 8½ m. Anchally. 9½ m. Javanpatna.

11

103 m.
5 f.DANDIGANHALLI.—12 m. 4 f. A small
b. village. Metalled

road, fit for motors.

Country undulating with cultivation at inter-
vals. Pass Grama at 8 m.*Camping-ground*.—High and open, 27·26 acres
N.-W. of village and 144·20 acres close by.*Water*.—Plentiful, from tanks, for 300 men and
200 animals.*Fuel*.—Scarce.*Fodder*.—Grazing: 300 acres at 1½ m., for 200
animals.

ROUTE NO. 39.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
SUB-DIVISIONAL OFFICER, FRENCH ROCKS.	DEPUTY COMMISSIONER OF HASSAN, HASSAN.	GENERAL OFFICER COMMANDING, BANGALORE.	<p><i>Supplies.</i>—Grain for 300 men and 200 animals at 15 days' notice. Oxen 6; sheep 25; goats 25. Vegetables <i>nil</i>. 8 m. Chama; camping-ground here.</p>
			<p>12 CHANNARAYAPATNA.—10 m. 4 f. Road b.p. metalled, fit for motors. Country open and cultivated. Cross a stream, bridged, at 6 m. <i>Vide</i> Route No. 15, stage 21.</p>
			<p>13 HIRISAVE.—14 m. 6 f. A big village. Metalled road, fit for motors. Country undulating, cultivated. <i>Camping-ground.</i>—65·16 acres N.-E. of village and 30 acres E. of village. <i>Water.</i>—For 200 men and 300 animals, from tank and <i>nala</i>. <i>Fuel.</i>—100 cartloads. <i>Fodder.</i>—Grazing: 710 acres at $\frac{1}{2}$ m., for 300 animals. <i>Supplies.</i>—Grain; 100 men and 500 animals for 3 days. Oxen <i>nil</i>; sheep 100; goats 100. Vegetables <i>nil</i>. 7 m. Matnowle; all <i>nalas</i> bridged.</p>
			<p>14 NELLIGERE.—13 m. 7 f. Metalled road, fit b.p. for motors. Cross Kodaballa and Dudiya streams, unbridged; fordable at all seasons. Country undulating, cultivated. <i>Vide</i> Route No. 26, stage No. 15, 2½ m. Birumanhalli (97). 8 m. Nugathihalli (213). 10 m. Kudaphalli (119).</p>

ROUTE NO. 39.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.	15	YEDIYLIR.—7 m. 0 f. A small village. Metalled road, fit for motors.
		149m. 6f.	(587). Country undulating, partly rocky, partly cultivated. Cross Veraamshinari river, $\frac{1}{4}$ m., bridged, and Shimsha river, $6\frac{1}{4}$ m., bridged and not fordable.
			Camping-ground.—41·30 acres S.-W. of village. Water.—From a large tank and the Shimsha river (on left), for 500 men and 500 animals. Fuel.—Scarce. Fodder.—Grazing nil. Supplies.—Grain, notice required. Oxen nil; sheep 50; goats 50. Vegetables nil. 6 m. Gondahalli.
DEPUTY COMMISSIONER OF BANGALORE, DISTRICT BANGALORE.	GENERAL OFFICER COMMANDING, BANGALORE.	16	KUNIGAL.—12 m. 2 f. Metalled road, fit for motors. Country open and cultivated.
		162m. 0f.	Cross Kodahalla river and 4 streams, all bridged. Vide Route No. 18, stage No. 20. 1 m. Chakenhally (130). 3 $\frac{3}{4}$ m. Byalkare (290). 5 $\frac{1}{4}$ m. Suddapur (90). 7 m. Nidematinhalli (110).
		17	TIPPASAMUDRAM.—7 m. 6 f. A good-sized village. Metalled road, fit for motors.
		169m. 6f.	Streams bridged. Country mostly cultivated; soil red. Camping-ground.—In dry tank bed, S.-E. of village. Water.—From a large well and tank to N.-W., for 500 men and 500 animals. Fuel.—Obtainable from Chilur forest 3 m. away.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39.
Civil.	Milli- tary.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT, BANGALORE.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Fodder.</i>—Grazing in forest, for 500 animals. <i>Supplies.</i>—Grain (with notice) for 500 men and 500 animals for 1 month. Oxen 100; sheep 200; goats 100. Vegetables <i>nil</i>. 5½ m. Talakere (459). 6½ m. Shiddapur (73).</p>
		18 178m. 3f.	<p>SOLUR.—8 m. 5f. A fair-sized village. <i>b.p.</i> Metalled road, fit for motors. Country cultivated throughout; soil red. <i>Camping-ground.</i>—6 acres, S. of village, on left of road; more space available in a dry tank bed 2 m. distant. <i>Water.</i>—When well and tank are full only, for 1,000 men and 500 animals. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing <i>nil</i>. <i>Supplies.</i>—Grain, for 300 men for 4 days; and 100 animals for 3 days. Oxen 10; sheep 15; goats 10. Vegetables <i>nil</i>. 2½ m. Kornerapura. 3¾ m. Narasandra. 5 m. Palya. 6¾ m. Madigunderahalli. 8¾ m.</p>
		19 190m. 5f.	<p>NELAMANGALA.—12 m. 2 f. Join Main <i>b.p.</i> (3.132). Route No. IV, between stages Nos. 21 and 22. A large town; headquarters of the sub-district. Metalled road, fit for motors. Cross Kumaduati stream at 6½ m., bridged. Country open and flat; practically all cultivation; soil red. <i>Camping-ground.</i>—No selected site. <i>Water.</i>—From wells and tank, for 2,000 men and 1,000 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39.
Civil.	Military.		
DEPUTY COMMISSIONER OF BANGALORE.	G. O. C. BANGALORE.		<p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing: 57·11 acres, 1 m., for 200 animals.</p> <p><i>Supplies.</i>—Grain for 3 days only, other supplies as required.</p> <p>1½ m. Kuddur. 2 m. Birakara. 3½ m. Baichapur. 5 m. Mahadupur (191). 7½ m. Yentiganhalli (341). 10 m. Bhanikere (111).</p>

No. 39 (1).

FROM KULGUNDA TO UPPINANGADI.

Road gravelled, but unbridged; rivers are fordable for carts between December and May; the road averages 18 feet wide, and the gradients are fairly easy, except in a few places, where it is 1 in 18.

Direction.—North-West.

COLLECTOR OF SOUTH KANARA; MANGALORE.	J. O. C. MADRAS DISTRICT, WELLINGTON.		KULGUNDA.	Camping-ground near the Local Fund inspection shed; water from the Kimuwardhary river during the hot weather, and from pools during the rainy season; supplies must be procured from Uppinangadi
		1 11 m. 0 f.	KADABA.—11 m. 0 f.	A small Local Fund inspection shed here; a maidan close to it; fit for a camp: supplies scanty; there is no stage between Kadaba and Uppinangadi, but the road passes through undulating, open country, with grassy plains and a halt may be made at Alanghar, 10 m. 3f.,

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39 (1).
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	2	but water is scanty here in the hot weather, and no provisions available. Three streams to be crossed in the rainy season; no boats available, but temporary foot bridges for two, and a bamboo raft for the third stream.
		30 m. 7 f.	
			UPPINAGADL.—19 m. 7 f. Cross the Hosmath river, unbridged, but provided with ferry and 2 boats.

ROUTE No. 39 (2).

FROM KULGUNDA TO GUNDIA *via* KOMBAR.

An earthen road.

Direction.—North.

COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.		KULGUNDA.
		1	GUNDIA.—11 m. 4 f.
		11 m. 4 f.	

ROUTE No. 39 (3).

FROM SAKLASPUR TO BELUR.

Road gravelled and bridged.

Direction.—North-North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39 (3).	
Civil.	Military.			
DEPUTY COMMISSIONER OF HASSAN, HASSAN.	G. O. C. BANGALORE.	..	SAKLASPUR.	
		1	b.p.t. AREHALLI.—9 m. 6 f.	From 2 m. to 4½ m., road very heavy in wet weather, as
		9 m. 6 f.	jungle prevents it from drying. Road turns N.-E. here.	
		2	CHIK BIK.—6 m. 0 f.	Small camping ground; small bazaar.
		15 m. 6 f.	KODE.	
		3	BELUR.—7 m. 0 f.	
		22 m. 6 f.	b.p.	

ROUTE No. 39 (4).

FROM PALYA TO BELUR.

A fair weather road; cross a stream at Eswarahalli, unbridged.

Direction.—North.

DEPUTY COMMISSIONER OF HASSAN, HASSAN.	G. O. C. BANGALORE.	..	PALYA.
			b.p.
		1	BELUR.—19 m. 7 f.—
		19 m 7 f.	b.p.

ROUTE No. 39 (5).
FROM HASSAN TO HALEBIDU.

Road very rough, unsuitable for troops.

Direction.—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39 (5).
Civil.	Military.		
DEPUTY COMMISSIONER OF HASSAN, HASSAN.	G. O. C., BANGALORE.	..	HASSAN.— <i>b.p.t.</i>
		1	HALEBIDU.—19 m. 0 f. <i>b.p.</i>
		19 m. 0 f.	

ROUTE No. 39 (6).

FROM HASSAN TO ARSIKERE.

A metalled and bridged road, practicable throughout the year.

Direction.—North-North-East.

DEPUTY COMMISSIONER OF HASSAN, HASSAN.	G. O. C., BANGALORE.	..	HASSAN <i>b.p.t.</i>	
		1	ARSIKERE.—27 m. 0 f. <i>b.p.t.r.</i>	<i>Vide Route No. 15 stage No. 24.</i>
		27 m. 0 f.		

ROUTE No. 39 (7).
FROM HASSAN TO TIPTUR.

A made road, practicable at all seasons

Direction.—North-East.

AUTHORITIES.		No. of stage. and total distance.	ROUTE NO. 39 (7).
Civil.	Military.		
DEPUTY COMMISSIONER OF HASSAN, HASSAN.	GENERAL OFFICER COMMANDING, BANGALORE.	..	HASSAN.— <i>b.p.t.</i>
		1	DUDA.—9 m. 6 f.
		9 m. 6 f.	
		2	GANDASI.—9 m. 6 f. <i>b.p.</i>
		19 m. 4 f.	
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.		3	TIPTUR.—17 m. 0 f. <i>Vide</i> Route No. 37. <i>b.p.t.r.</i> stage No. 28.
		36 m. 4 f.	

ROUTE No. 39 (8).

FROM NEAR YEDIYUR TO CHITALDROOG.

From the bungalow to the junction of the Yedyur and Tipur road it is metalled; the remaining portion is gravelled; practicable for carts at all seasons, except between Mayasandra and Kibbanhalli.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 39 (8).	
Civil.	Military.			
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.	..	FROM NEAR YEDIYUR. <i>b.p.</i>	
		1	MAYASANDRA.—11 m. 2 f. <i>b.p.</i>	} Cross some large streams, unbridged.
		11 m. 2 f.		
		2	TIRUVEKERE.—12 m. 0 f.	
		23 m. 2 f.		
		3	KIBBANHALLI. <i>b.p.</i>	
		4	CHIKNAYAKANHALLI.—8 m 0 f. <i>p.</i>	
		5	HULIYAR.—14 m. 0 f. <i>b.p.</i>	Vide Route No. 40, Stage No. 8.
		6	CHITALDROOG BOUNDARY. 16 m. 0 f.	This road passes Budhihal, a large village.

ROUTE No. 39 (9).
FROM TIRUVEKERE TO TIPTUR.

Cross some large streams, unbridged ; a made road, but not bridged throughout ; impracticable in the rainy season, and not easy at any time owing to the streams.

Direction.—North-West.

AUTHORITIES		No. of stage and total distance.	ROUTE NO. 39 (9).
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.	..	TIRUVEKERE.
		1	TIPTUR.—17 m. 0 f. <i>vide</i> Route No. 37, <i>b.p.t.r.</i> stage No. 28.
		17 m. 0 f.	

ROUTE NO. 40.

FROM HASSAN TO HIRIYUR.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—Direction north-east generally. The road is metalled for first 60 miles; then gravelled; a good fair-weather track. This route is not healthy, and is not recommended, except in case of urgency. Best season December to March. Total distance 103½ miles—11 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 40.
Civil.	Military.		
DEPUTY COMMISSIONER OF HASSAN, HASSAN.	GENERAL OFFICER COMMANDING, BANGALORE.	..	HASSAN.— <i>Vide</i> Route No. 39, stage No. 10. <i>b.p.t.</i>
		1	HAGERE.—12 m. Metalled road, fit for <i>b.</i> (355'). motors. Country undulating; pasture land cultivated at intervals. A pass crossed about 5th mile, easy and well made. An inspecting lodge, used as travellers bungalow, has been constructed near the 12th mile stone, and there is spacious ground near it for encampment; the village of Hagera is within about 6 f. of the camping-ground.
		12 m. 0 f.	<i>Camping-ground.</i> —20·26 acres, E. of village. <i>Water.</i> —For 2,000 men and 500 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing: 655 acres at 2½ m., unlimited.
		2	<i>Supplies.</i> —Grain for 500 men and 500 animals for 1 week. Oxen 20; sheep, goats and vegetables <i>nil.</i>
		23 m. 0 f.	BELUR.—11 m. 0 f. A large town. Metalled <i>b.p.t.</i> road, fit for motors. (2,631'). Country very hilly;

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 40.
Civil.	Mili- tary.		
DEPUTY COMMISSIONER OF HASSAN, HASSAN.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>several steep ascents and descents. A little cultivation, but mostly jungle. The Yagachi river is crossed by a bridge at Belur; a famous temple of great beauty here; <i>nalas</i> bridged.</p> <p><i>Camping-ground</i>.—27 acres, E. of town.</p> <p><i>Water</i>.—From Yagachi river and tanks all the year round, for 10,000 men and 5,000 animals.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain for 2,000 men and 2,000 animals for one week. Oxen 25; sheep <i>nil</i>; goats 25; vegetables <i>nil</i>.</p> <p>5½ m, Ibbéd (571).</p>
		<p>3</p> <p>33 m 3 f.</p>	<p>HALEBIDU.—10 m. 3 f.—A good sized village; <i>b.p.</i> with 15 shops. (1,329). Metalled road, fit for motors. Country undulating, valleys cultivated; near Halebidu are the ruins of an ancient city containing architectural remains of great celebrity. There is a travellers bungalow at Halebidu, close to the famous temple. A more direct road from Hassan to Halebidu exists, but it is a very rough track, and should not be used by troops.</p> <p><i>Camping-ground</i>.—5·25 acres, S. of village.</p> <p><i>Water</i>.—From river and tank for 5,000 men and 10,000 animals.</p> <p><i>Fuel</i>.—From Kalhally Kaval, up to 1,500 cart-loads.</p> <p><i>Fodder</i>.—Grazing: 6,107 acres, at Idahally Kaval 4 m. distant.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 40.
Civil.	Milit- tary.		
DEPUTY COMMISSIONER OF HASSAN, HASSAN.	GENERAL OFFICER COMMANDING, RANGALORE.		<p><i>Supplies.</i>—Grain for 1,000 men and 2,000 animals for 1 week. Oxen 50; sheep <i>nil</i>; goats 100. Vegetables <i>nil</i>. 4½ m. to Hebbal (531).</p>
		4	<p>JAVAGAL.—7 m. 4 f. A good-sized village. b. (1,150). Metalled road, fit for motors. Country hilly, barren and covered with low jungle; cultivated in valleys.</p>
		40 m. 7 f.	<p><i>Camping-ground.</i>—No selected site, but 50 acres close to road can be used. <i>Water.</i>—Scarce in dry season. <i>Fuel.</i>—With notice, up to 100 cartloads. <i>Fodder.</i>—Grazing <i>nil</i>. <i>Supplies.</i>—Grain from Sunday market for 1,000 men and 100 horses. Oxen 50; sheep 50; goats 25. Vegetables <i>nil</i>. 1½ m. to Havenhalli. 3½ m. to Kurbarbudhihal. 4½ m. to Koleganhalli.</p>
		5	<p>BANAVARA.—10 m. 4 f. <i>Vide</i> Route No. 15, b.p.r. stage No. 25. Me- talled road, fit for motors. Country undulating; cultivated in valleys. <i>Nalas</i> bridged.</p>
		51 m 3 f.	<p>2½ m. Maldevihalli. 3 m. Senkihalli. 5½ m. Belvalli. 7 m. Arkre (805). 8 m. Keukralli (221).</p>
		6	<p>GARDANGIRI.—7 m. 6 f. Gravelled road (485). fit for motors in dry season only; soil stony and gravelly up to 4th milestone; on high ground, open and culti- vated.</p>
		59 m. 1 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 40.
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Camping-ground.</i>—No selected site.</p> <p><i>Water.</i>—In wells and tanks; the latter dry up in hot season; for 500 men and 300 animals.</p> <p><i>Fodder.</i>—Grazing; 400 acres at $\frac{1}{2}$ m. for 800 animals.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Supplies.</i>—Grain for 150 men and 150 horses for 2 days. Oxen <i>nil</i>; sheep 20; goats 10. Vegetables <i>nil</i>.</p> <p>3$\frac{3}{4}$ m. Shenehalli (220). 4$\frac{1}{2}$ m. Pura (61).</p>
		7 66 m. 0 f.	<p>KANAKATTE.—6 m. 7 f. A small village. (615). Gravelled road fit for motors in dry season only; a small ascent and descent in this stage, but they are very easy. Country open and cultivated.</p> <p><i>Camping-ground.</i>—51·12 acres S.-W. of village and 28—30 acres close by.</p> <p><i>Water.</i>—From 2 tanks and 4 wells.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing for 500 animals at 2 m.</p> <p><i>Supplies.</i>—Grain for 25 men and 500 animals 1 week. Oxen <i>nil</i>; sheep 500; goats 100. Vegetables <i>nil</i>.</p> <p>1$\frac{1}{2}$ m. Kalladahalli. 3$\frac{3}{4}$ m. Sonnaselihalli.</p>
		8 76 m. 0 f.	<p>HULIYAR.—10 m. 0 f. A fair-sized village; <i>b.p.</i> the chief village of the sub-district.</p> <p>Gravelled road, unfit for motors. Country covered with light jungle and cultivated in parts.</p> <p><i>Camping-ground.</i>—No fixed site for this purpose.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 40.
Civil.	Military.		
DEPUTY COMMISSIONER OF CHITALDROOG, CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Water</i>.—From tank and wells, for 1,000 men and 1,500 animals.</p> <p><i>Fuel</i>.—Very scarce.</p> <p><i>Fodder</i>.—Grazing: 835 acres within 1 m., for 3,000 animals.</p> <p><i>Supplies</i>.—Grain for 100 men and 100 animals, for 2 days. Oxen 70; sheep 189; goats 115; vegetables <i>nil</i>.</p> <p>5½ m. Kuragiria (606). 12½ m. Bommarbali (168). <i>Nalas</i>, bridged or tunnelled.</p>
		9	<p>ARSENAGUNDI.—11 m. 4 f. A small village. (114.) Gravelled road, fit for motors in dry season only. At 10 m. cross a large stream, bridged, fordable. A large <i>nala</i> close at hand; at 5th m. a small pass, ascent and descent easy; country well cultivated up to this; soil gravelly.</p> <p><i>Camping-ground</i>.—E. of village.</p> <p><i>Water</i>.—From well for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing for 500 animals, 1,000 acres at 1 m.</p> <p><i>Supplies</i>.—Nil.</p> <p>1 m. Kudigandaju. 1½ m. Gavadgere. 2 m. Kenkere. 2½ m. Gullurhalli. 8½ m. Dodbijalkere. 9½ m. Chikbijalkere.</p>
		87 m. 4 f.	
		10	<p>MADANHALLI NALA.—10 m. 3 f. A small village. Hindasakatte a mile back. Gravelled road, fit for motors in dry season only.</p>
		97 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 40.
Civil.	Military.		
DEPUTY COMMISSIONER OF CHITALDROOG, CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.		Country slightly undulating and uncultivated. Soil gravelly. At 9 m. cross a <i>nala</i> , bridged. <i>Camping-ground</i> .—Near to a <i>nala</i> . <i>Water</i> .—Constant, from <i>nala</i> , for 1,000 men, 500 animals. <i>Fuel</i> .—From forest 6 m. distant. <i>Grazing and Supplies</i> .—Nil. 2 m. Halmadenhalli (212). 2½ m. Bijaharnidava (106). 5½ m. Yelladakere (655). 6½ m. Kallihalli. 9½ m. Hindaskalli (406).
		11	HIRIYUR.—9 m. 0f. Gravelled road, fit for <i>b.p.l.</i> motors in dry season only. Country open and partly cultivated. <i>Vide</i> Main Route No. IV, stage No 29. All streams are bridged. 4½ m. Hulayalkunte (341). 5½ m. Somegehalli (198).
		106m. 7f.	

ROUTE No. 40 (1).

FROM BELUR TO MUDIGERE.

This road is not in good condition; there is another road *vid* Gonibid, 25 m. long, streams bridged and road practicable all the year round.

Direction.—West.

DEPUTY COMMISSIONER OF HASSAN.	G. O. C. BANGALORE.	...	BELUR. <i>b.p.</i>
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AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 40.(1)
Civil.	Military.		
DEPUTY COMMISSIONER OF KADUR, CHIKMAGALUR.	G. O. C., BANGALORE.	1	MUDIGERE.—20 m. 0 f. <i>b.p.t.</i>
		20 m 0 f.	

ROUTE No. 40 (2).

FROM BELUR TO CHIKMAGALUR.

A made road, practicable at all seasons.

Direction.—North-North-West.

DEPUTY COMMISSIONER OF KADUR, CHIKMAGALUR. SIONER OF HASSAN, HASSAN.	G. O. COMMANDING, BANGALORE.	..	BELUR.— <i>b.p.</i>
		1 14 m 0 f.	CHIKMAGALUR.—14 m. 0 f. <i>b.p.</i>

ROUTE No. 40 (3).
FROM HULIYAR TO SIRA.

Cross some *nalas*, unbridged. A gravelled road, unbridged and practicable for carts in the dry season only.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 40(3).
Civil.	Military.		
DEPUTY COMMISSIONER OF TUMKUR, TUMKUR.	G. O. C., BANGALORE.	..	HULIYAR. <i>b.p.</i>
		1	SIRA.—28 m. 6 f. <i>b. p.t.</i>
		28 m. 6f	

ROUTE No. 41.

FROM MANGALORE TO CHALLAKERE.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—Direction N.-E. The road is metalled, except two stages, and bridged; the Bund pass has recently been made, and is practicable for carts, the gradients varying from 1 in 20 to 1 in 15. The remaining portion of the road is for the most part good and practicable, but it passes through a wild and unhealthy country, where supplies are difficult to obtain. Total distance 222½ m., 23 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		MANGALORE.— <i>Vide</i> Route No. 2, stage No. 49.
		1 9 m. 0 f.	FARANGIPET.—9 m. 0 f. Metalled road, fit for motors. <i>Vide</i> Route No. 19, stage No. 40. Country cultivated; all <i>nalas</i> bridged. 1 m. Kankanadi (2,133). 2 m. Alapi (1,139). 3 m. Kannur (1,206). 5 m. Addyar (1,152). 8 m. Arkulu (1,047)
		2 16 m. 0 f.	BANTVAL.—7 m. 0 f. A large and populous town on the Netravati river; opposite Panimangalore (Route No. 19). Metalled road, fit for motors. Country hilly and jungly, interspersed with cultivation. The river is navigated with large <i>carves</i> up to this point, but with great difficulty from April to September. Cross 4 streams, bridged. <i>Camping-ground.</i> —Nil. <i>Water.</i> —From wells and tanks, sufficient for 50,000 men and 50,000 animals.

AUTHORITIES.		No. of stages and total distance.	ROUTE NO. 41.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA; MANGALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		3	<p><i>Fuel</i>.—200 cartloads.</p> <p><i>Fodder</i>.—Grazing: 200 acres within 1 m., for 2,000 animals.</p> <p><i>Supplies</i>.—Grain for 10,000 men and 10,000 animals for one month. Oxen 50; sheep <i>nil</i>; goats 116. Vegetables for 1,000 men.</p> <p>1 m. Tumbe (1,032). 3 m. Kalliya (1,354). 4 m. Muda (2,860).</p>
		28 m. 0 f.	<p>PANJALKATTU.—12 m. 0 f. A small village; (1,096). with bazar. Metalled road, fit for motors.</p> <p><i>p</i>. Country undulating, valleys cultivated. Cross several streams, bridged.</p> <p><i>Camping-ground</i>.—300 acres W. of village and 300 acres close by.</p> <p><i>Water</i>.—For 5,000 men and 5,000 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 1,000 acres, $\frac{1}{2}$ m., for 50,000 animals.</p> <p><i>Supplies</i>.—Grain for 500 men and 500 animals, 1 month. Oxen 10; sheep, goats and vegetables <i>nil</i>.</p> <p>2 m. Navur (1,681). 6 m. Kaval Pudur (1,217). 7 m. Kadbettu (596). 8 m. Kavallindur (1,857). 9 m. Mudpudukodi (1,164).</p>
		37 m. 0 f.	<p>BELTANGADY.—9 m. 0 f. Metalled road, fit for <i>p</i>. (1,511). motors. Country open and cultivated.</p> <p>Cross four streams, bridged. All <i>nalas</i> bridged.</p> <p><i>Camping-ground</i>.—20 acres N.-W. of village and 20 acres close by.</p> <p><i>Water</i>.—From stream, unlimited supply.</p> <p><i>Fuel</i>.—Obtainable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	5	<p><i>Fodder</i>.—Grazing: 20 acres, close by.</p> <p><i>Supplies</i>.—Grain for 400 men and 200 animals for 1 week. Oxen 25; sheep <i>nil</i>; goats 125. Vegetables <i>nil</i>.</p> <p>1 m. Kukkala, (895). 2 m. Paranki (896). 3 m. Malavi (937). 5 m. Sonanvur (749). 6 m. Kuvittu (1,282).</p> <p>CHARMADI.—12 m. 0 f. Metalled road, fit for motors, bridged throughout, but impassable in many places during south-west monsoon, owing to floods. Country varied; open, jungle and cultivation. Cross Mandagi river, bridged, and several streams, bridged.</p> <p><i>Camping-ground</i>.—On dry patta land, 20 acres N.-E. of village and 20 acres near by.</p> <p><i>Water</i>.—From streams, unlimited supply.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing plentiful; 50 acres at Pam.</p> <p><i>Supplies</i>.—Grain for 300 men and 100 animals for 2 days. Oxen 25; sheep and goats <i>nil</i>. Vegetables for 100 men.</p> <p>2 m. Laila (1,467). 3 m. Vire (2,347). 5 m. Kalmanja (1,021). 7 m. Mundagi (1,122). 9 m. Chibidre (430).</p>
		49 m. 0 f.	
DEPUTY COMMISSIONER OF KADUR, CHIKMAGALUR.	GENERAL OFFICER COMMANDING, BANGALORE.	6	<p>KOTIGHAR.—15 m. 1½ f. Metalled road, fit (174). for motors, in fair condition but needs repair here and there. Country is hilly and rocky. The hill is well made, with gradients varying from 1 in 20 to 1 in 15. Ascend the Bund hill. Streams all bridged.</p> <p><i>Camping-ground</i>.—249 acres W. of village.</p>
		64 m. 1½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41.
Civil.	Military.		
DEPUTY COMMISSIONER OF KADUR, CHIKMAGALUR.	GENERAL OFFICER COMMANDING, BANGALORE.	7	<p><i>Water</i>.—From stream, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing within $\frac{1}{2}$ m. for 1,000 animals.</p> <p><i>Supplies</i>.—<i>Nil</i>.</p> <p>8$\frac{3}{4}$ m. Somankad.</p>
		75 m. 3 f.	<p>MUDIGERE.—11 m. 1$\frac{1}{2}$ f. A fairly large place ; b. p.t. (1,390). Amildar's office.</p> <p>Metalled road, fit for motors. Country hilly and rocky ; cultivation sparse. All streams bridged.</p> <p><i>Camping-ground</i>.—12.31 acres N. of village and additional space close by.</p> <p><i>Water</i>.—For 500 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing: 282 acres at $\frac{1}{2}$ m., for 500 animals.</p> <p><i>Supplies</i>.—Grain for 500 men and 500 animals for one day. Oxen, goats and vegetables <i>nil</i> ; sheep 20.</p> <p>1 m. Attigere (124). 2$\frac{1}{4}$ m. Banko (1,253). 13$\frac{1}{4}$ m. Chakmuki. 5 m. Phalguni (643). 5$\frac{1}{2}$ m. Horatti. 7 m. Bidarahalli.</p>
		8	<p>VASTARA.—12 m. 7 f. A fairly large place b. p. (753). and bazar.</p> <p>Metalled road, in fair order, fit for motors. Country hilly and wild. Cross 1 stream, bridged.</p> <p><i>Camping-ground</i>.—<i>Nil</i>.</p> <p><i>Water</i>.—From a <i>nala</i> and wells, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Obtainable.</p>
		88 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41.
Civil.	Military.		
DEPUTY COMMISSIONER OF KADUR. CHIKMAGALUR.	GENERAL OFFICER COMMANDING, BANGALORE.	9	<p><i>Fodder</i>.—Grazing plentiful at 1 m., for 500 animals.</p> <p><i>Supplies</i>.—Grain for 400 men, after harvest only. Oxen, sheep and goats <i>nil</i>. Vegetables, small quantities only.</p> <p>11½ m. Somavapet.</p> <p>CHIKMAGALUR.—6 m. 3 f. A large place ; b. p. (8,537). headquarters of Deputy Commissioner of the district. Metalled road, fit for motors. Country open cultivation and rocky jungle alternately. Cross a stream, bridged.</p> <p><i>Camping-ground</i>.—No fixed site.</p> <p><i>Water</i>.—From pipe, for 3,000 men and 3,000 animals.</p> <p><i>Fuel</i>.—15 cartloads.</p> <p><i>Fodder</i>.—Grazing: 140 acres, 1½ m., for 600 animals.</p> <p><i>Supplies</i>.—Grain; 2,000 men and 2,000 animals for 3 days.</p> <p>Oxen 20; sheep 50; goats 20. Vegetables in small quantities only.</p> <p>3¼ m. Mugathihalli.</p>
		10	
		105 m. 1 f.	<p>LINGANHALLI.—10 m. 4 f. Road partly p. (210). metalled and partly gravelled, unfit for motors, in bad repair. Country mostly rocky and jungly; streams bridged.</p> <p><i>Camping-ground</i>.—Nil.</p> <p><i>Water</i>.—From well and stream, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Obtainable.</p>

AUTHORITIES.		No. of stage and total distance	ROUTE NO. 41.
Civil.	Military.		
DEPUTY COMMISSIONER OF KADUR, CHIKMAGALUR.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Grazing.</i>—484 acres within $1\frac{1}{2}$ m. for 300 animals.</p> <p><i>Supplies.</i>—Nil.</p> <p>$5\frac{1}{4}$ m. Kaimara. $9\frac{1}{2}$ m. Hebbal.</p>
		11	<p>SANTAVERI.—9 m. 6 f. A small place. <i>b. p.</i> (417'). Gravelled road, in bad repair; unfit for motors or wheeled transport. At 6 m. cross Avati river, bridged. Country thick jungle and coffee plantations.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—From 2 wells, good supply.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Grazing.</i>—150 acres within 2 m. for 300 animals.</p> <p><i>Supplies.</i>—Nil.</p> <p>3 m. Bhaktarahalli (417). 5 m. Hospet.</p>
		114 m. 7 f.	
		12	<p>LINGADHALLI.—8 m. 4 f. A small place. Partly metalled and partly gravelled road, fit for motors throughout. Streams bridged. Country hilly and jungly.</p> <p><i>Camping-ground.</i>—20 acres S. of village and 20 acres close by.</p> <p><i>Water.</i>—Scanty supply, from wells and tanks.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing: 350 acres; 2 m., for 700 animals.</p> <p><i>Supplies.</i>—Grain, February to May only, for 800 men and 100 animals. Other supplies <i>nil</i>.</p>
		123 m. 3 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41.
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.	13	TARIKERE.—8 m. 4 f. Road partly metal- b. p.t.r. led and partly gra- velled, fit for motors throughout. Country undulating and culti- vated. Cross 1 stream, unbridged, fordable. <i>Vide</i> Route No. 15, stage 28. 5½ m. Dornahall.
		131 m. 7 f.	
		14	BENKIPUR.—12 m. 0 f. Metalled road, fit for b. p.t. motors. Cross 1 stream, bridged. Country as before. <i>Vide</i> Route No. 15, stage No. 29. 3½ m. Byanahalli.
		143 m. 7 f.	
		15	KUDLIGERE.—6 m. 0 f. A small village, with (443). a native rest-house. Metalled road, fit for motors. At 3½ m. Kagihalli stream, bridged. <i>Camping-ground</i> .—10 acres to E. and S. of village; also other ground close by. <i>Water</i> .—Scarce; from wells and tanks, for 100 men and 100 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing nil. <i>Supplies</i> .—Nil. 3 m. Veerapur (129). 4½ m. Arilihalli (409).
		149 m. 7 f.	
		16	KALLAPURA.—5 m. 0 f. A small village, with a police outpost. Gravelled road, fit for motors. Country jungly and undulating. <i>Camping-ground</i> .—10 acres close by, and ad- ditional space, if required.
		154 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41.
Civil.	Mili- tary.		
DY. COMR. OF SHIMOGA; SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.	17	<p><i>Water</i>.—Scanty supply from 1 well, for 100 men and 100 animals only.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing at $\frac{1}{4}$ m. for 100 animals.</p> <p><i>Supplies</i>.—Nil.</p>
		165 m. 7 f.	<p>CHANNAGIRI.—11 m. 0 f. A small town of 500 b. p. (4,168). houses; the chief village of the sub-district. Metalled road, fit for motors throughout. Cross several small streams, fordable.</p> <p><i>Camping-ground</i>.—7 acres, W. of town.</p> <p><i>Water</i>.—From tank in cold weather for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing: 27·30 acres at $\frac{1}{4}$ m. for 50 animals.</p> <p><i>Supplies</i>.—Grain for 200 men and 100 animals. Oxen nil; sheep 19; goats 15. Country vegetables only.</p> <p>5 m. Guabadakatti. 9 m. Ajihulli (445).</p>
DY. COMR. OF CHITALDROOG; CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.	18	<p>DHUMI.—9 m. 0 f. A large village. Metalled road, fit for motors. Railway station 5 m. from here. Soil red. Country open; dry cultivation.</p> <p><i>Camping-ground</i>.—13·19 acres, N. of village.</p> <p><i>Water</i>.—From tank, for 400 men and 400 animals; scarce in hot weather.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—475·30 acres grazing at 1 m. for 400 animals.</p>
		174 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41.
Civil.	Military.		
DEPUTY COMMISSIONER OF CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Supplies.</i>—Grain for 50 men and 50 animals for 1 day. Sheep 5; oxen, goats and vegetables <i>nil</i>; previous notice for large supplies should be given. Cross 4 streams, bridged. 6 m. Hebbal-gere. 7 m. Madapur.</p>
		19	<p>HOLALKERE.—9m. 0f. A small town. Metalled road, in fair order, fit for motors.</p>
		183 m. 7 f.	<p>Country open, with cultivation here and there. All streams bridged. Railway station 4 m. from here</p> <p><i>Camping-ground.</i>—2·30 acres S. of village and ground near.</p> <p><i>Water.</i>—From 4 wells and 3 tanks for 800 men and 800 animals. Scarce in the dry season.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing: 2,211 acres at 2 m. for 1,000 animals.</p> <p><i>Supplies.</i>—Grain for 100 men and 100 animals for 1 day. Oxen <i>nil</i>; sheep 20; goats 10. Vegetables <i>nil</i>. Previous notice, if large quantities are required.</p> <p>5½ m. Amrechalli (506).</p>
		20	<p>BUNJANHALLI.—9m. 0f. Metalled road, in fair order, fit for motors. Country</p>
		192 m. 7 f.	<p>open; scattered cultivation. All streams bridged, soil black.</p> <p><i>Camping-ground.</i>—27·12 acres W. of village, and waste ground for camping near police station.</p> <p><i>Water.</i>—Normally, for 500 men and 500 animals; but scarce in hot season.</p> <p><i>Fuel.</i>—Nil.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41.
Civil.	Military.		
DEPUTY COMMISSIONER OF CHITALDROOG, CHITALDROOG.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Fodder</i>.—Grazing : 293 acres at 1 m. for 300 animals.</p> <p><i>Supplies</i>.—20 sheep only; give notice if large supplies required.</p> <p>1 m. Kunnerhalli (341). 4 m. Halehalli (420). 5½ m. Abbanayakanhalli or Sivagungi (505).</p>
		21	<p>CHITALDROOG.—11m. 0f. Metalled road, in <i>b.p.t.</i> fair order, fit for motors. Country open; cultivated here and there. At 4 m. cross Jangihalla river, bridged. <i>Vide</i> main Route No. 4, stage 31.</p> <p>4 m. Pandarhalli (1,087). Jukonda (right 5 m.). Budnapur (left 6 m.) together (1,265). 8½ m. Virjahalli (316).</p>
		203 m. 7 f.	
		22	<p>KALLEHALLI.—8m. 0f. A small hamlet. Metalled road, fit for motors. Country open, partly cultivated. At 7 m. cross a stream, bridged.</p> <p><i>Camping-ground</i>.—Nil.</p> <p><i>Water</i>.—From <i>nala</i>, in which there is a constant stream, for 500 men and 500 animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>.</p> <p><i>Supplies</i>.—Nil; previous notice to be given, if required.</p> <p>½ m. Kelagole (559). 1½ m. Madkerepur (771). 4 m. Kuru'urabatti.</p>
		211m. 7 f.	<p>CHALLAKERE.—10 m 5 f. Metalled road, <i>b.p.t.</i> fit for motors. Country open.</p> <p><i>Vide</i> Route No. 23, stage No. 25.</p>
		222 m. 4 f.	

ROUTE No. 41 (1).

FROM BELTANGADY TO MULKY.

Road bridged throughout and practicable at all seasons.

Direction—West-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41 (1).
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. COMMANDING MADRAS DISTRICT, WELLINGTON.	..	BELTANGADY.
		1	<i>p.</i> VENUR.—11 m. 1 f.
		11m. 1 f. 2	MOODBIDRI.—12 m 4 f.
		23m. 5f.	<i>p.</i>
		3	KINNIGOLY.—11 m. 6. f.
		35m. 3f.	
		4	MULKI.—5 m. 7 f.
		41 m. 2f.	<i>b. p.t.</i>

ROUTE No. 41 (2).

FROM BELTANGADY TO KASARAHALLI.

DY. COMR. OF KADUR, CHIKMAGALUR.	G. O. C., BANGALORE.	..	BELTANGADY. <i>p.</i>
		1	KASARAHALLI.—7 m. 4f.
		7m. 4f.	

RGUTE No. 41 (3).
FROM KOTIGHAR TO MANDAGADDE.

Direction—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41(3).
Civil.	Military		
DY. COMR. OF KADUR, CHIKMAGALUL.	GENERAL OFFICER COMMANDING, BANGALORE.	..	KOTIGHAR.
		1 27 m. 0 f.	KALASA.—27 m. 0 f. Cross the Hemavati p. river, unbridged.
		2 49 m. 0 f.	BALEHONNUR.—22 m. 0 f. Cross the p.t. Tannimballu-B ale- holestream, un- bridged.
		3 70 m. 0 f.	YEDAHALLI.—21 m. 0 f. Cross the Meya p. Malli nala, Bandi nala and Sikay nala, unbridged.
DY. COMR. OF SHIMOGA, SHIMOGA.		4 80 m. 0 f.	MANDAGADDE.—10 m. 0 f. Cross the Bal- b.p. laray nala and Tunga river, un- bridged.

ROUTE No. 41 (4).

FROM BYDAVALLY TO MUDIGERE.

Cross the Hemavati river, unbridged.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41 (4).
Civil.	Military.		
DY. COMR. OF KADUR, CHIKMAGALUR.	G. O. C., BANGALORE.	..	BYDAVALLY.
		1	MUDIGERE.—8 m. 0f. <i>b.p.l.</i>
		8 m. 0f.	

ROUTE No. 41 (5).

FROM VASTARA TO SRINGERI.

A made road, practicable at all seasons.

Direction.—North-East.

DY. COMR. OF KADUR, CHIKMAGALUR.	G. O. C., BANGALORE.	..	VASTARA. <i>b.p.</i>
		1	BALEHONNUR.—27 m. 0 f. <i>p.l.</i>
		27 m. 0 f.	
		2	SULEBAIL.—15 m. 0 f. Distance approximate.
		42 m. 0 f.	
		3	SRINGERI.—13 m. 0f. Cross the Makka-
		55 m. 0 f.	<i>p.</i> koppra, Sita and Tunga rivers. unbridged.

ROUTE No. 41 (6).

FROM CHIKMAGALUR TO YEDAHALLI.

Cross the Bhadra river, which has a ferry, and six other streams, unbridged, and impassable for a few days at a time during the monsoon.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41 (6).
Civil.	Military.		
DY. COMR. OF KADUR, CHIKMAGALUR	G. O. C., BANGALORE.	..	CHIKMAGALUR. <i>b. p.</i>
		1	YEDAHALLI.—40 m. 0 f. <i>p.</i>
		40 m. 0 f.	

ROUTE No. 41 (7).

FROM CHIKMAGALUR TO KADUR.

A made road, metalled and bridged, practicable at all seasons.

Direction.—North-East.

DY. COMR. OF KADUR, CHIKMAGALUR	G. O. C., BANGALORE.	..	CHIKMAGALUR. <i>b. p.</i>
		1	SAKREPATNA.—14 m. 0 f. <i>b. p.</i>
		14 m. 0 f.	
		2	KADUR.—11 m. 0 f. <i>b. p. t. r.</i>
		25 m. 0 f.	

ROUTE No. 41 (8).

FROM SANTAVERI TO KALHATTI.

Cross the Kalhatti Thirta by a causeway.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41 (8).
Civil.	Military.		
D. C. OF KADUR, CHIKMAGALUR.	G. O. C., BANGALORE.	..	SANTAVERI.— <i>b.p.</i>
		1	KALHATTI.—4 m. 4 f.
		4 m. 4 f.	

ROUTE No. 41 (9).

FROM LINGADHALLI TO AJJAMPUR.

Direction.—North.

D. C. OF KADUR, CHIKMAGALUR.	GENERAL OFFICER COMMAND- ING, BANGALORE.	..	LINGADHALLI. <i>b.p.</i>
		1	BIRUR.—10 m. 0 f.
		10 m. 0 f.	<i>p.t.</i>
		2	AJJAMPUR.—9 m. 0 f.
		19 m. 0 f.	<i>p.r.</i>

ROUTE No. 41 (10).

FROM TARIKERE TO AGUMBE.

A metalled road, practicable at all seasons.

Direction.—West by South.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41 (10).
Civil.	Military.		
DEPUTY COMMISSIONER OF KADUR. CHIKMAGALUR.	GENERAL OFFICER COMMANDING, BANGALORE.	..	TARIKERE.— <i>b. p. t.r.</i>
		1 12 m. 0 f.	LAKAWALLI.—12 m. 0 f.
		2 25 m. 0 f.	YEDAHALLI.—13 m. 0 f. <i>p.</i>
		3 46 m. 0 f.	HARIHARPUR.—21 m. 0 f. <i>p.</i>
		4 62 m. 0 f.	AGUMBE.—16 m. 0 f. <i>Vide</i> Route No. 42, <i>b.p.</i> stage No. 7.

ROUTE No. 41 (12).
FROM SANTEBENNUR TO SULEKERE.
Direction.—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 41 (12).
Civil.	Military.		
DY. COMR. OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.	..	SANTEBENNUR.—A moderate-sized village; p. railway station; ample supplies; camping ground to S.E.; water from wells.
		1	SULEKERE.—8 m. 4f.
		8 m. 4f	b.

ROUTE NO. 42.

FROM MANGALORE TO HOSPET.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—Direction N.-E. In the South Kanara district, this road is metalled and partially bridged, so as to be practicable at all times, except, perhaps, from June to August, while the monsoon is at its height, when it is impossible even to keep boats on some of the streams, which are very narrow and have very rapid currents at that time. Temporary foot-bridges provide foot-passengers with means of crossing these streams during the monsoon. Fever prevails about the foot of the Agumbee hill, March to June. In the Mysore country, the road is made and practicable for carts at all seasons; troops, however, should not leave Mangalore until after the monsoon, owing to the very heavy rain experienced on the West Coast. From Harihar to Hospet the road is metalled and gravelled. A few small streams are bridged. Thence the road is a good one and partially bridged, so as to be practicable at all seasons, up to Hospet; Total distance—232 m. 2 f., 24 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	MANGALORE.— <i>Vide</i> Route 2, stage No. 49. <i>b.p.t.r.</i>
		1	GURPUR.—9m. 4f. A fair-sized village. <i>b.p.</i> (1,823). Gravelled road, fit for motors. Country hilly, but cultivated at intervals; the river is crossed by boats, 4 available. Cross the Sualguns river, unbridged, but fordable in the dry season.
		9 m. 4 f.	<i>Camping-ground.</i> —8 acres N. of village, and 16 acres near.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—From well, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—200 headloads.</p> <p><i>Fodder</i>.—150 acres at 3½ m., for 600 animals.</p> <p><i>Supplies</i>.—Grain, for 5,000 men and 5,000 animals for 1 month. Oxen 100 (but not ordinarily available for food; sheep <i>nil</i>; goats 25. Vegetables for 100 men.</p> <p>4 m. Padayu (2,609). 6 m. Kudupu (722). 8 m. Tiruvail (1,047).</p>
		2	<p>MOODBIDRI.—12 m. 4 f. A small town. Metalled road, fit for motors. Country generally open and level, but two hills are met with, each 1½ m. long, with a maximum gradient of 1 in 15; valleys are cultivated. Cross three streams, bridged.</p> <p><i>Camping-ground</i>.—Good and open; 33·83 acres W. of village, and 200 acres within 1 m.</p> <p><i>Water</i>.—From wells and tanks, for 1,000 men and 500 animals.</p> <p><i>Fuel</i>.—15 tons.</p> <p><i>Fodder</i>.—Grazing for 800 acres within 1 m., for 200 animals.</p> <p><i>Supplies</i>.—Grain for 2,000 men and 2,000 animals for 1 month; meat <i>nil</i>. Vegetables: February to April and August to October, for 2,000 men. 7 m. from Tenkamizar (1,685). 9 m. Badayamizar (1,290). Tadar (997).</p>
		32 m. 0f.	
		3	<p>KARKUL.—10 m. 0f. A small town. Metalled road, fit for motors. Country, at first, open and flat, latterly, hilly and jungly, cultivated near village. All streams are bridged.</p>
		32 m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.			<p>There is an alternative route from Karkul to Someshvar, <i>viz.</i>, Bailur 8 m., Hiriyaka 9 m., Someshvar 10 m.</p> <p><i>Camping-ground.</i>—Good and open; 10 acres E. of town, and 30 acres near.</p> <p><i>Water.</i>—Unlimited supply, from lake, near.</p> <p><i>Fuel.</i>—30 tons.</p> <p><i>Fodder.</i>—Grazing: 200 acres at 1 m., for 1,500 animals.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 2,000 animals for 1 month; meat <i>nil</i>. Vegetables, February to April and August to November, for 2,000 men. 2 m. Padumamud (1,101). 4 m. Belvai (2,149). 6 m. Kanutava (2,482). 7 m. Sanur (2,011)</p>
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		4	
		41 m. 4 f.	<p>AJFKAR OR SORNADKA.—9m. 4f. A large village. Metalled road, fit for motors. (2,803).</p> <p>Country generally open. The river at 6½ m. is, for a mile, fordable, but boats are procurable when requisite, a temporary bridge over it in the dry season. Cross the Suvamunadi river, unbridged, but a bridge was under construction.</p> <p><i>Camping-ground.</i>—20 acres N. of village, and 20 acres close by.</p> <p><i>Water.</i>—From a <i>nala</i> and 2 wells, for 2,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—2 tons.</p> <p><i>Fodder.</i>—Grazing: 200 acres, 1 m., for 2,000 animals.</p> <p><i>Supplies.</i>—Grain for 1,000 men for 1 day and 500 animals for 3 days; meat <i>nil</i>. Vegetables, August, November, February and April, for 1,000 men. 1½ m. Kurkamilar (2,743). 3 m. Herjan (1,957).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.		5	<p>MUDRADL.—8 m. 0f. A fair-sized village. Road b. (1,598). metallised and fit for motors; steep ascents and descents. At first part of stage country open; then jungly. Foot-bridges over the streams in the rains. Cross the Wattohala, Kadholi and Mathebettu rivers; bridged. <i>Nalas</i> are bridged.</p> <p><i>Camping-ground</i>.—4 acres, practically, in village, and 5 acres outside.</p> <p><i>Water</i>.—For 2,000 men and 1,000 animals, except in very hot weather. Five wells.</p> <p><i>Fuel</i>.—2 tons.</p> <p><i>Fodder</i>.—Grazing: 100 acres at 1 m., for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 2,000 men for 10 days for 500 animals for 3 days; meat <i>nil</i>. Vegetables, February to April and August to November for 500 men.</p> <p>3 m. Varanga (1,394).</p>
		49 m. 4 f.	
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		6	<p>SOMESVAR.—7 m. 5 f. A fair-sized village. b.p. (1,341). Metalled road fit for motors. Country jungly, with occasional hills. Cross 5 small streams. bridged.</p> <p><i>Camping-ground</i>.—5 acres E. of village, and 5 acres close by.</p> <p><i>Water</i>.—From a small tank and 6 wells; sufficient for 2,000 men and 1,000 animals, except in April and May.</p> <p><i>Fuel</i>.—3 tons.</p> <p><i>Fodder</i>.—Grazing: 15 acres at $\frac{1}{2}$ m., for 500 animals for 1 day.</p>
		57 m. 1 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Supplies.</i>—Grain for 2,000 men for 3 days and 500 animals for 1 day; meat <i>nil</i>. Vegetables, February to April and August to November, for 500 men.</p> <p>2 m. Kabri (1,717).</p>
		7	<p>AGUMBE.—5m. 6f. A small village. Metalled b.p. (933). road, fit for motors. Hill 3½ m. long; well made and kept in good order, gradient from 1 in 16 to 1 in 17. Second class bungalow. Ascend the Agumbe hill. Country thick jungle. Cross small <i>nalas</i>, bridged. <i>Camping-ground</i>—400 yds. × 250 yds., S. of village, and 10 acres near. <i>Water.</i>—From tank and well, for 1,000 men and 500 horses except in hot weather. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing: 20 acres at 4 m., for 200 animals for 2 days. <i>Supplies.</i>—Grain for 100 men only for 3 days; meat <i>nil</i>. Vegetables, country only.</p>
		62m 7f.	
		2	<p>MEGARVALI.—10m. 2f. A small village. b. (1,022). Metalled road, fit for motors. Cross one stream, bridged. Country wooded. Third class bungalow. <i>Camping-ground.</i>—150 yds. by 50 yds. E. of village and six acres near. <i>Water.</i>—From tank, <i>nala</i> and wells; stream is perennial and supply unlimited. <i>Fuel.</i>—Obtainable with notice. <i>Fodder.</i>—Grazing <i>nil</i>.</p>
		73 m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.		<i>Supplies.</i> —Grain for 100 men only for 2 days; meat and vegetables <i>nil</i> . 1½ m. Kotagi.
		9	TIRTHAHALLI.—9m. 1f. A fair-sized town on the Tunga river. Chief village of the sub-district. Country covered with dense jungle. Second class bungalow. Cross a stream, ridged.
		82m. 2f.	<i>Camping-ground.</i> —High and open; 6·34 acres N.-E. of town, and two acres near. <i>Water.</i> —Unlimited supply, from Tunga river and wells. <i>Fuel.</i> —Obtainable with notice. <i>Fodder.</i> —Grazing <i>nil</i> . <i>Supplies.</i> —Grain for 500 men only for one day. Sheep 12; oxen, goats and vegetables <i>nil</i> . 1 m. Mulalajeb.
		10	MALUR.—8m. 7f. A small village. Metalled road, fit for motors. Country dense jungle; cultivated here and there. Cross one stream, bridged. Third class bungalow.
		91m. 1f.	<i>Camping-ground.</i> —12 acres S. of village, and 8 acres near. <i>Water.</i> —From a <i>nala</i> and a tank, for 1,000 men and 500 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing <i>nil</i> . <i>Supplies.</i> —Grain with notice only; other supplies <i>nil</i> . 8 m. Kudemallige.

AUTHORITIES.		No. of stage, and total distance.	ROUTE NO. 42.
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.		
		11	<p>MANDAGADDE.—8m. 7f. A good-sized village. Metalled road, fit for motors. There is a missionary hospital here. Country as before. At 3 m. pass Tudur, where there is also a good camping-ground. Second class bungalow. Cross 3 streams, bridged.</p> <p><i>Camping-ground.</i>—Good, open and dry; 240 yds. by 80 yds., W. of village.</p> <p><i>Water.</i>—Unlimited, from river, which is on the right all the way.</p> <p><i>Fuel.</i>—Obtainable with notice.</p> <p><i>Fodder.</i>—Grazing nil.</p> <p><i>Supplies.</i>—Nil.</p> <p>3 m. Sudur. 2 m. Bigavalli. 7½ m. Lingapur.</p>
		109m. 0f.	
		12	<p>SAKREBAIL.—9m. 0f. A hamlet. Metalled road, not fit for motors, but fit for other wheeled-traffic. Country dense jungle, steep and undulating.</p> <p><i>Camping-ground.</i>—5 acres, low and good, in front of bungalow (which is second class), and 8 acres on left bank of river close by.</p> <p><i>Water.</i>—Good; from Tunga river, which gives unlimited supply.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing: 10 acres at 1 m. for 200 animals.</p> <p><i>Supplies.</i>—Have to be collected from Shinoga.</p>
		109m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA. GENERAL OFFICER COMMANDING, BANGALORE.		13	SHIMOGA.—9m. 0f. Metalled road, fit for <i>b.p.t.r.</i> motors. Cross 1 stream, bridged. <i>Vide</i> Route No. 15, stage 30. Country flat, open and cultivated. 2 m. Gajnur (719).
		118m. 0f	
		14	HOLALUR.—10m. 4f. A small village. <i>b.</i> (787). Metalled road, fit for motors. Country as before. Third class bungalow. Cross 2 streams, bridged. <i>Camping-ground.</i> —27 acres, N. of village. <i>Water.</i> —Unlimited supply, from Tunga river. <i>Fuel.</i> —3 cartloads, uncut. <i>Fodder.</i> —Grazing: 10 acres, within 2 m., for 200 animals. <i>Supplies.</i> —Grain for 100 men and 100 animals for one day; other supplies: <i>nil.</i> 8 m. Sugur (632).
		128m. 4f	
		15	HONNALI.—13 m. 7 f. A small town 1 mile <i>b.p.</i> (3,998). W. of road. Metalled road, fit for motors. Country level and cultivated with dry grain. Headquarters of the sub-district; second class bungalow. Route No. 44 joins here. Cross 1 stream, bridged. <i>Camping-ground.</i> —Good but stony; 6·23 acres, E. of town. <i>Water.</i> —Unlimited supply, from Tungabhadra river. <i>Fuel and Fodder.</i> —Nil.
		142m. 3f	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.		<p><i>Supplies.</i>—Grain; for 100 men and 100 animals for 2 days. Oxen and vegetable <i>nil</i>; sheep 50; goats 50.</p>
		16	<p>MALEBENNUR.—11 m. <i>Of</i>. A large village.</p>
		153m. 3f.	<p><i>p.</i> Road partly metalled and partly gravelled, fit for motors at low speed. Country stony and covered with light jungle. A hill about 4 m. long in this stage. The river has high banks, but not steep; the ford is not good; boats to be had when requisite. Cross the Tungabhadra river, bridged, and one stream, bridged.</p> <p><i>Camping-ground.</i>—No special site; 45 acres, after harvest, N. and N.-W. of village.</p> <p><i>Water.</i>—From tank, spring and 6 wells; supply good.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing: 292 acres, within 2 m., for 500 animals.</p> <p><i>Supplies.</i>—Grain for 200 men and 200 animals for 2 days. Oxen <i>nil</i>. sheep 80; goats 35. Vegetables, country only obtainable.</p> <p>4 m. Masaki. 5½ m. Arakere.</p>
		17	<p>HARIHAR.—12 m. <i>Of</i>. <i>Vide</i> main Route No. <i>b. p. t. r.</i> IV, stage No. 36.</p>
		165m. 3f.	<p>Metalled road, fit for motors at low speed. Country generally open and cultivated. At 5 m. cross Shulaykevay river, bridged and fordable.</p> <p>3 m. Belodi. 5 m. Yekkgundi. 6½ m. Nandithavarayi. 10 m. Kumbaluru.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY. GENERAL OFFICER COMMANDING, BANGALORE.		18	<p>TILGI.—11 m. 0f. A fair-sized village; post p. (1,860). office and police station. Road metal- led and fit for motors. Country cultivated; soil black and red. Cross 3 streams, unbridged. <i>Camping-ground.</i>—Nil. <i>Water.</i>—From a nala and well, for 200 men and 300 animals. <i>Fuel and Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 100 men and 200 animals for 2 days. Sheep 200; other supplies nil. 8 m. Duggavathi (1,029).</p>
		176m. 3f.	
		19	
		188m. 3f.	<p>HARPAHAHALLI.—12 m. 0f. A small town; p. (8,898). with a fort. Head- quarters of a tah- sildar. Road very undulating; metalled and fit for motors. Country hilly in places; land generally under cultivation. At 3 m. cross a stream, unbridged but fordable. <i>Camping-ground.</i>—6 acres N. of town. <i>Water.</i>—From 3 wells, for 1,000 men and 60 animals. <i>Fuel.</i>—Nil. <i>Fodder.</i>—Grazing nil. <i>Supplies.</i>—Grain unlimited, up to one month. Sheep 200; other supplies nil. 3 m. Chirastahalli (1551). 6 m. (Taludahalli) (100). 9 m. Amantahalli (145).</p>
		20	<p>NANDIBEVR.—10 m. 0f. A large village. (1,555). Road metalled and fit for motors. Country generally open and cultivated. Cross 1 stream, bridged.</p>
		198m. 3f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.	
Civil.	Military.			
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	21	<p><i>Camping-ground.</i>—Nil. <i>Water.</i>—None available. <i>Fuel, Fodder and Supplies.</i>—Nil. 3 m. Sringerathoru (366). 6 m. Kanivihalli (614).</p>	
		208 m. 2 f.	<p>ULUVATTI.—9 m. 7 f. A small village. Gravelled road, fit for motors. Country open and cultivated; soil black. The river has steep banks. Cross 3 large nullahs, unbridged but easily fordable. <i>Camping-ground.</i>—12 acres E. of village, and 8 acres near by. <i>Water.</i>—Unlimited, from Hagari river. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing in Chuntapalli Reserve at 4 m., unlimited; straw obtainable. <i>Supplies.</i>—Grain for a large number of men for 3 days. Oxen 10; sheep 300; goats 300. Vegetables obtainable.</p>	
364GSB	5F	22	<p>BELAHALLU.—6 m. 4 f. A fair-sized village. (144). Metalled road, fit for motors. Country flat; soil red. The river has steep banks. Cross Hagari river at 5.2 m., unfordable occasionally in rain; 1 boat available. <i>Camping-ground.</i>—189.96 acres E. of village, and 17.31 acres near. <i>Water.</i>—Normally, supply unlimited. <i>Fuel.</i>—Scarce. <i>Fodder.</i>—Grazing: 993 acres close by; for 3500 animals. <i>Supplies.</i>—Grain and oxen nil; sheep 100; goats 100. Vegetables in small quantities. 5 m. Hayari Bommanhalli (506).</p>	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	23	<p>NARAYAN.—10 m. 4 f. A large village, with DEVERKERI. an old fort. Cart p. (3,846). track only up to 5 m.; thence metalled and fit for motors. Country open and cultivated, soil red, sandy, and dry. Cross the Chinna Hagri river, unbridged, 1 stream bridged and 3 streams unbridged.</p> <p><i>Camping-ground.</i>—Near a large tank, good, and 4 acres near.</p> <p><i>Water.</i>—Scarce in the hot weather.</p> <p><i>Fuel.</i>—Obtainable with notice.</p> <p><i>Fodder.</i>—Grazing: 1,483 acres close by, for 5,000 animals.</p> <p><i>Supplies.</i>—Grain for 5,000 men and 5,000 animals for 1 week. Oxen 1,121; sheep 206; goats 346. Vegetables available in moderate quantities.</p> <p>5 m. Chinna Higgarabad (823). 8 m. Marabihul (649).</p>
		225m. 2f.	
		24	
		232m. 2f.	<p>HOSPET.—7 m. 0 f. <i>Vide</i> Route No. 38, stage b. p. t. r. No. 35. Road metalled and fit for motors; difficulty might be experienced at Ginripura <i>nala</i>, unbridged, usually fordable. Country jungle, rocky and cultivated alternately 2 m. Anipinakatta (358). 4 m. Gowripuram (519). Cross 2 <i>nalas</i> fordable, unbridged.</p>

ROUTE No. 42 (1).
FROM GURPUR TO SURATKAL.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42 (1).
Civil.	Military.		
COLL. OF S. KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	GURPUR.— <i>b.p.</i>
		1	BAJAPI.—6 m. 1 f.
		6 m. 1 f.	
		2	SURATKAL.—9 m. 5 f. <i>p.</i>
		15 m. 6 f.	

ROUTE No. 42 (2).
FROM MOODBIDRI TO NARAVI.

Direction.—North-East.

COLL. OF S. KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	MOODBIDRI.— <i>p.</i>
		1	NARAVI.—14 m. 0 f.
		14 m. 0 f.	

ROUTE No. 42 (3).

FROM KARKUL TO BRAHMAVAR.

Gravelled and bridged, passable at all seasons.

Direction.—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42 (3).
Civil.	Mili- tary.		
COLL. OF S. KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	KARKUL.
		1	<i>b. p.</i> BYLOOR.—7 m. 1 f.
		7 m. 1 f. 2	HIRIADKA.—8 m. 4 f. <i>p.</i>
		15 m. 5 f. 3	PERDUR.—5 m. 0 f. <i>p.</i>
		20 m. 5 f. 4	BRAHMAVAR.—13 m. 0 f.—Cross the Madi <i>b. p. t.</i> river, unbridged.
		33 m. 5 f.	

ROUTE No. 42 (4).

FROM HEBRI TO KOCKARNE.

Direction.—West.

COLL. OF S. KANARA, MANGALORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	HEBRI. <i>p.</i>
		1	KOCKARNE.—11 m. 0 f.
		11 m. 0 f.	

ROUTE No. 42 (5).

FROM SOMESVAR TO HALADI.

Cross one stream, unbridged; a fair-weather road only, gravelled and partially bridged.

Direction.—North-West

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42 (5).
Civil.	Military.		
COLR. OF S. KANARA, MANGALORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	SOMESVAR.— <i>b. p.</i>
		1	ALBADI.—9 m. 6 f. <i>p.</i>
		9 m. 6 f.	
		2	HALADI.—8 m. 6 f.
		18 m. 4 f.	

ROUTE No. 42 (6).

FROM TIRTHAHALLI TO HULIKAL CHOULTRY.

Direction.—West.

DY. COMR. OF SHIMOGA, SHIMOGA.	G. O. C., BANGALORE.	..	TIRTHAHALLI.— <i>b. p. t.</i>
		1	HULIKAL CHOULTRY.—22 m. 2 f.
		22 m. 2 f.	

ROUTE No. 42 (7).
FROM TIRTHAHALLI TO ANANTAPUR.
Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42 (7).
Civil.	Military.		
DY. COMR. OF SHIMOGA, SHIMOGA.	G. O. C., BANGALORE.	..	TIRTHAHALLI.— <i>b. p. t.</i>
		1	HUMCHADAKATTE.—17 m. 5 f. A small village, with an inspection lodge; water from tanks.
		17 m. 5f.	
		2	ANANTAPUR.—15 m. 6 f. <i>Vide</i> Route No. 15, stage No. 32.
		33 m. 3f.	<i>p</i>

ROUTE No. 42 (8).
FROM HARPANAHALLI TO HUVINAHADGALLI.
A very fair road, practicable at all seasons.

Direction.—North by West.

COLLECTOR OF BELLARY, BELLARY.	G. O. C., BANGALORE.	..	HARPANAHALLI.— <i>p.</i>
		1	HUVINAHADGALLI.—16 m. 2 f.
		16 m. 2f.	<i>p.</i>

ROUTE No. 42 (9).

FROM HARPANAHALLI TO KUDLIGI.

A fair-weather road only.

Direction.—East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 42 (9).
Civil.	Military.		
COLL. OF BELLARY, BELLARY.	G. O. C., BANGALORE.	..	HARPANAHALLI. <i>p.</i>
		1	KUDLIGI.—28 <i>m.</i> 0 <i>f.</i> Cross the Chinna <i>p.</i> Hagri river, un- bridged.
		28 <i>m.</i> 0 <i>f.</i>	

ROUTE NO. 43

FROM HOSKOTE TO NAYUDUPET.

Authority and date.—General Officer Commanding, 9th Division, Jan. 1919.

Epitome.—Direction—East-north-east. The road is metalled throughout and bridged, with the exception of the rivers mentioned, which are fordable, except after heavy rain; practicable for all arms, except in one or two stages, fit for motors.

Total distance.—185 miles—19 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43.
Civil.	Military.		
DEPUTY COMMISSIONER OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.	..	HOSKOTE.— <i>Vide</i> Route No. 24, stage No. b.p. (4,552). 23.
		1	MUGUBALA.—8 m. 4 f. A small village, with (461). a few shops.
		8m. 4f.	Metalled road, fit for motors. Country undulating, open and cultivated. All <i>nalas</i> have culverts.
			<i>Camping-ground.</i> —For a regiment, S. and W., when crops are cut. No selected site.
			<i>Water.</i> —From a tank and wells, for 450 men and 300 animals.
			<i>Fuel.</i> —Obtainable.
			<i>Fodder.</i> —Grazing at 1 m. for 300 animals.
			<i>Supplies.</i> —On previous notice. Grain from Hoskote. Oxen 92; sheep 282; goats 100.
			Vegetables <i>nil</i> .
			6 m. Attur 2 m. Danopalayar (361).
			6 m. Nidinghalla (629). 7 m. Dadanellahalli (281).
		2	NARASAPURA.—8 m. 4 f. A small village. b. (1,509). Metalled road, fit for motors.
		17m. 0f.	Country undulating, rocky and partly cultivated. All <i>nalas</i> are bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43.
Civil.	Military.		
DY. COMM. OF BANGALORE DISTRICT.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>5 m. Kurki (210). 5 m. Chowda (349). <i>Camping-ground</i>.—Ample ground near Bellur, which is 1 m. W. <i>Water</i>.—Unlimited supply, from Narasapura tank. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Grazing available close by for 1,000 animals. <i>Supplies</i>.—Grain for 300 men and 500 animals for 3 days. Oxen nil; sheep and goats as required. Vegetables and potatoes available.</p>
		3	<p>KOLAR.—10 m. 3 f. <i>Vide</i> Route No. 27, b.p.d. stage No. 18. Metalled road, fit for motors. Country undulating. Soil hard and in some places rocky. 3 m. Madivali (77). 53 m. Maderhalli (201). 7 m. Kondarapurhalli (191).</p>
		27m. 3f.	
DY. COMM. OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.	4	<p>TAMAK.—3 m. 4 f. Metalled road, fit for (361). motors. Better to halt here than at Kolar. Country open and cultivated. Cross 1 stream, bridged. <i>Camping-ground</i>.—63½ acres E. of village, and 40 acres close by. <i>Water</i>.—Scarce in dry season. <i>Fuel</i>.—Scarce. <i>Fodder</i>.—Grazing nil. Grass can be collected with notice. <i>Supplies</i>.—None locally; must be obtained from Kolar. Pass Neul.</p>
		30m. 7f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43.
Civil.	Military.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.	5	ALLYATUMBAHALLI—7 m. 0 f. A small village. Metalled road, fit for motors. Country undulating, well watered and cultivated. Cross Polur river 6½ m., bridged.
		37m. 7f.	<i>Camping-ground</i> .—20 acres N.-E. of village. <i>Water</i> .—From wells and a tank, for animals; when full, for 3,000 men and 3,000 animals. <i>Fuel</i> .—Up to 100 tons, with one month's notice. <i>Fodder</i> .—Grazing available and grass up to 30 cartloads can be supplied with notice. <i>Supplies</i> .—Grain: notice required for 5,000 men and 2,000 animals. Oxen and vegetables <i>nil</i> ; sheep 30; goats 20. 1 m. Kumbahalli 3 m. Agupalli.
		6	KAPPALMADGU—12 m. 0 f. A small village. (926). b. Metalled road, fit for motors. Soil hard and stony. Country mostly rocky and sparsely cultivated. At 8 m. pass Mulgabal, a large place, but very feverish from February to June. All <i>nalas</i> are bridged.
		49m. 7f.	<i>Camping-ground</i> .—25 acres, W. of village. <i>Water</i> .—From wells and 2 tanks; when full, for 3,000 men and 2,000 animals; dry season, 1,000 men and 500 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing <i>nil</i> ; grass obtainable. <i>Supplies</i> .—Grain, oxen and vegetables <i>nil</i> ; sheep 50; goats 20.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		7	
		63m. 4f.	<p>MARRIMAKULAPALLI.—13 m. 5f. A small village 2,300 ft. above sea level. Metalled road, fit for motors, undulating. It skirts the conspicuous hill of Pattikonda. Country open, rocky and cultivated. Cross 3 <i>nalas</i>, brick culverts; soil red and dry.</p> <p><i>Camping-ground</i>.—Ample for a regiment; 25 acres S.-W. of village, close to road.</p> <p><i>Water</i>.—Good; from 3 wells and a tank, for 1,000 men and 500 animals.</p> <p><i>Fuel and Fodder</i>.—Nil.</p> <p><i>Supplies</i>.—Grain <i>nil</i>, unless 20 days' notice is given. Oxen <i>nil</i>; sheep 50; goats 50. Vegetables, 2 maunds.</p> <p>6 m. Nameetti.</p>
		8	<p>PALMANER.—9 m. 4 f. Road as before. <i>b. p.</i> <i>Vide</i> Route No. 23, stage No. 14.</p> <p>Country partly jungle and partly cultivation. 2 m. Pattikonda (568). 7 m. Kondinyar river, 100 yards, unbridged.</p>
		9	<p>VENKATAGIRI.—11 m. 4 f. A large place 1,500 ft. above sea level. Road as before, but unfit for motors. Country jungly.</p> <p><i>Camping-ground</i>.—Good and dry; 10 acres, W. of town. There is another site available in the village of Venkataverasandram, 13 m. from Venkatagiri, with a tank and hill stream close by. Gradients easy, 1 in 26; it descends a hill and crosses the Venkatagiri R., bridged and fordable.</p>
		84m. 4f.	

AUTHORITIES.

Civil.

Mili-
tary.No.
of
stage
and
total
distance.

ROUTE NO. 43.

COLLECTOR OF CHITTOOR, CHITTOOR.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

10

97m. 4f.

11

107m. 4f.

12

118m. 1f.

Water.—From a *nala* and small tank, for animals. Very scarce.

Fuel.—Cut. 1 ton stacked.

Fodder.—Nil.

Supplies.—Grain for 50 men and 50 animals for 2 days; more with notice. Oxen 50; sheep 100; goats 100. Vegetables 5 maunds. 7 m. Mogili. 8 m. Ralamakulapiddi.

CHITTOOR.—13 m. 0 f. *Vide* Route No. 30, *p.t.r.* stage No. 20. Road and country as before. Cross 8 *nalas*; bridged. At 11½ m. R., bridged. 7 m. Mittapalli. 10 m. Vargupedi.

PUTALAPATTU.—10 m. 0 f. *Vide* Route 34, *p.* stage 11. Road as before. Country rocky and cultivated. 1 m. Chittoor river, bridged. 4½ m. Kattamandri. 1 m. Muttririlal. 7 m. Bandapalli Ronnai river, fordable.

GADANGI.—10 m. 5 f. A small village. (1,400). Road fit for motors in this stage. Coun

try as before.

Camping-ground.—Extensive, to N. of village. *Water*.—From tanks, *nala* and wells, for 200 men and 200 animals.

Fuel.—Nil.

Fodder.—Grazing for 300 animals ½ m. from village.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Supplies.</i>—None available, but may be had from Pakula, 4 m. distant; also 500 sheep and 500 goats.</p> <p>$\frac{1}{2}$ m. Pattalapattu river, 150 feet, unbridged, fordable.</p>
		13	<p>CHANDRAGIRI.—12 m. 4 f. A small town. <i>p. l.</i> (4,800). Road as before.</p> <p>Country hilly, open and cultivated near road; soil stony and red. Cross the Swarnamukhi river, 160 feet, at 8 m; fordable.</p> <p><i>Camping-ground.</i>—5 acres, W. of town.</p> <p><i>Water.</i>—From wells, for 2,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing for 1,000 animals 2 m. from Camp.</p> <p><i>Supplies.</i>—Paddy for 500 men for 1 month; grain for 300 animals for 10 days; other supplies nil.</p> <p>$2\frac{1}{2}$ m. Panapakam (1,600). $7\frac{1}{2}$ m. Mungilpattu (1,300).</p>
		14	<p>TIRUPATI.—10 m. 7 f. A large municipal <i>p. l. r.</i> (1,700). town; railway station; celebrated Hindu shrine. Road as before. Country open and cultivated; hill on N.; soil hard. Re-cross the Swarnamukhi river at $1\frac{1}{2}$ m., unbridged, fordable. Cross several streams, all bridged.</p> <p><i>Camping-ground.</i>—15 acres, S.-W. of town.</p> <p><i>Water.</i>—Fresh, from pond, for 1,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—Nil.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Fodder</i>.—Grazing: 300 acres within 2 m., for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 1,000 animals for 10 days. Oxen and vegetables <i>nil</i>; sheep 1,000; goats 500.</p>
		15	<p>KARAKAMBADI.—6 m. 7 f. <i>Vide</i> Route No. 38, stage No. 8. Road as before.</p> <p>Country partly hilly and jungly and partly open and cultivated.</p>
		148m. 3f.	
		16	<p>VIRAPAUDU.—10 m. 0 f. A small village, with (719). some shops. Road and country as before: hills on N.</p> <p><i>Camping-ground</i>.—<i>Nil</i>.</p> <p><i>Water</i>.—From a tank, for 300 men and 300 animals</p> <p><i>Fuel</i>.—Very scarce.</p> <p><i>Fodder</i>.—Very scarce; a little grazing 1 m. from village.</p> <p>1½ m. stream, 120 feet, fordable except in flood. 2 m. Ragunta (247). 4½ m. stream, 800 feet, fordable except in flood. 6 m. Mallavaram (554). 9½ m. Venkatapuram (167). 9¼ m. Marrigunta (139).</p>
		158m. 3f.	
		17	<p>KALAHASTI.—8 m. 6 f. A small town. Road <i>p. t. r.</i> (13,000). as before. Country hilly and much cultivated. Soil red. The bed of the river is very sandy.</p> <p><i>Camping-ground</i>.—Sandy, one mile W. of town for 2 or 3 regiments.</p> <p><i>Water</i>.—From Swarnamukhi river, for 200 men and 200 animals.</p>
		167m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43.
Civil.	Military.		
COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	18	<p><i>Fuel.</i>—Available in small quantities.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 200 men and 50 animals for 4 days; other supplies <i>nil</i>.</p>
		176m. 4f.	<p>PELLAKUR.—9 m. 3f. A very small village. Road and country as before.</p> <p><i>Camping-ground.</i>—Nil.</p> <p><i>Water.</i>—From river, for 200 men and 200 animals.</p> <p><i>Fuel.</i>—Obtainable $\frac{1}{2}$ m. away.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 250 men; for animals <i>nil</i>. Other supplies <i>nil</i>.</p> <p>$\frac{1}{2}$ m. Swarnamukhi river, unbridged, 660 feet, fordable.</p> <p>2$\frac{1}{2}$ m. Peddakannali (1,300). 5 m. Poyar (340).</p>
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	19	<p>NAYUDUPET.—8 m. 4f. An <i>East Coast Railway</i> station, well supplied with trees and groves. Metalled road, fit for motors. Country partly jungle and partly cultivated.</p> <p><i>Camping-ground.</i>—6 acres, N. of village.</p> <p><i>Water.</i>—A spring channel through the village from the river; supply for 2,000 men and 500 animals.</p> <p><i>Fuel.</i>—20 tons.</p> <p><i>Fodder.</i>—Grazing: 10 acres at 1 m., for 200 animals.</p> <p><i>Supplies.</i>—Grain to any extent required. Oxen 5; sheep 500; goats 500. Vegetables plentiful.</p> <p>At 6$\frac{1}{2}$ m. cross the irrigation channel; bridge under construction should now be completed.</p> <p>3 m. Chavati (516). Taluk headquarters.</p>
		185m. 0f.	

ROUTE No. 43 (1).

FROM MULBAGAL TO GORIBIDNUR.

Cross the Northern Pennar and its tributaries between Chikballapur and Goribidnur. A made road, practicable for carts at all seasons, except when the rivers are in flood.

Direction.—West and North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43 (1).
Civil.	Mili- tary.		
DEPUTY COMMISSIONER OF KOLAR, KOLAR.	GENERAL OFFICER COMMANDING, BANGALORE.		MULBAGAL.— <i>b. p.</i>
		1	SRINIVASPUR.—18 m. 4 f. <i>p.</i>
		18m. 4f.	
		2	CHINTAMANI.—12 m. 0 f. <i>p.</i>
		30m. 4f.	
		3	SIDLAGHATTA.—12 m. 4 f. <i>p.</i>
		43m. 0f.	
		4	CHIKBALLAPUR.—10 m. 6 f. <i>b. p. t</i>
		53m. 6f.	
		5	GORIBIDNUR.—21 m. 2 f. <i>p. t. r.</i>
		75m. 0f.	

ROUTE No. 43 (2).
FROM KALAHASTI TO VENKATAGIRI.

Cross the Swarnamukhi and one branch, unbridged. Road gravelled, but not in good order. Smaller streams bridged. Road not much used now, owing to the railway and a branch road from Erpedu.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 43 (2).
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	COLLECTOR OF CHITTOOR, CHITTOOR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	KALAHASTI.— <i>p. l. r.</i>
			1 16m. 5f.

ROUTE NO 44.

FROM BARKUR TO ARLAHALLI.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Total distance 219 m. 5 f.

21 Stages.

Epitome.—Direction.—North-east. The road is metalled and mostly fit for motors. The smaller streams are mostly bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.			<p>BARKUR.—2 m. A fair-sized village; gravelled p. (1,278). road, fit for motors; country undulating and cultivated; soil red. Cross the Setanadi river, unbridged; boats required for crossing; 3 available.</p> <p><i>Camping ground.</i>—50·25 acres to east of village.</p> <p><i>Water.</i>—Abundant; for 2,000 men and 2,000 animals.</p> <p><i>Fuel.</i>—100 cartloads.</p> <p><i>Fodder.</i>—Grazing close by for 1,000 animals; straw is also obtainable.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 1,000 animals for 2 weeks; oxen and sheep <i>nil</i>; a few goats obtainable; vegetables for 1,000 men.</p>
GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44.
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		1	SHANKARANARYANA.—14 m. 3 f. A fair-sized village; gravelled road, fit for wheeled traffic only; country as a rule covered with jungle, but cultivated near villages. Banks of all streams are high and steep and difficult for carts; the river is unfordable, but boats are available. At 7 m. 6 f. pass Haladi. Cross several streams and Halar river, unbridged, but fordable January to May; 3 boats available. <i>Camping ground.</i> —None selected. <i>Water.</i> —From wells and tanks, for 500 men and 200 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Rice only, for 100 men for 1 day. 9 m. Halladiharhari (545); 12 m. Hardali Mandali (1,310).
		2 24 m. 5 f.	HOSANGADI.—10 m. 2 f. A fair-sized village. Gravelled road, fit for motors; the rivers are fordable at all seasons; a short hill is crossed in this stage, an ascent of 1½ m. with gradients from 1 in 19 to 1 in 23. Cross three small rivers, bridged. Country jungly, valleys cultivated. <i>Camping ground.</i> —10 acres N.-E. of village and 8 acres near. <i>Water.</i> —Plentiful; for 1,000 men and 500 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing 1 sq. mile at 1 m. for 1,000 animals. <i>Supplies.</i> —Rice for 1,000 men for 7 days, and grain for 400 animals for 1 day; other supplies nil. 5½ m. Siddapur (187).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44.
Civil.	Military		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA. GENERAL OFFICER COMMANDING, BANGALORE.		3	<p>HULIKAL CHOULTRY.—7 m. 2 f. A small village, with an inspection lodge. Metalled road, fit for motors. Country hilly and covered with dense jungle; soil red. The hill road which follows an entirely different trace from the old one is about 7½ m. in length; it is metalled and bridged throughout, and has a ruling gradient of 1 in 20. Ascend the Hyderghar hill.</p> <p><i>Camping ground.</i>—7336 sq. yds. to W.</p> <p><i>Water.</i>—Good supply; from stream.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Nil.</p>
		31m. 7f.	
		4	
		41m. 3f.	
		5	<p>NAGAR.—9 m. 4 f. A small town in decaying condition. Metalled road, fit for motors. Country rough and jungly; soil red; third class bungalow. At 8½ m. cross a stream, bridged.</p> <p><i>Camping ground.</i>—72·11 acres 1 m. from village.</p> <p><i>Water.</i>—From river and tanks; for 500 men and 500 animals.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—528 grazing acres at 1 m. for 1,500 animals.</p> <p><i>Supplies.</i>—Nil, unless notice is given.</p> <p>7½ m. Kahale; 5½ m. Kaikanda; 8½ m. Kadarali.</p>
		50m. 1f.	<p>KALLURKATTE.—8 m. 6 f. A small village, which is the headquarters of the Nagar sub-district. Metalled road, fit for motors. Cross the Kullahalla (2 m.) and Satta</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44.
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.		(5 m.) rivers, both bridged. 2nd class bungalow.
			<i>Camping ground</i> .—60 acres to W.
			<i>Water</i> .—From well and tank, for 2,000 men and 2,000 animals.
			<i>Fuel</i> .—Obtainable.
			<i>Fodder</i> .—974 grazing acres at $\frac{1}{2}$ m. for 3,000 animals.
			<i>Supplies</i> .—Nil, unless previous notice given.
		6	KODUR.—9 m. A small village; metalled (275) road, fit for motors.
		59 m. 1 f.	Cross the Hardra-rathi river at 7 m., bridged. Country thick jungle.
			<i>Camping ground</i> .—174 acres, close to village.
			<i>Water</i> .—From a tank and 1 well, for 300 men and 300 animals.
			<i>Fuel</i> .—Obtainable.
			<i>Fodder</i> .—1,652 grazing acres for 5,300 animals.
			<i>Supplies</i> .—Nil.
			5 m. Cuddevoppa.
		7	BENAVALLI.—10 m. 3 f. A small village. Metalled road, fit for wheeled transport.
		69 m. 4 f.	Motors at a very low speed only. Country thick jungle. <i>Nalas</i> bridged. Third class bungalow.
			<i>Camping ground</i> .—About 38 acres, close to village.
			<i>Water</i> .—From tank and 2 wells, for 500 men and 500 animals.
			<i>Fuel</i> .—Obtainable.
			<i>Fodder</i> .—1,495 grazing acres close by for 4,900 animals.
			<i>Supplies</i> .—Nil.
			3 m. Chickveni. 7 m. Cavatur.

AUTHORITIES.		No. of stages and total distance.	ROUTE NO. 44.
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.	8	AYANUR.—11 m. 1 f. A good-sized village, with an inspection lodge. Metalled road, fit for motors. Country mostly thick jungle, undulating, with occasional cultivation. Cross the Kunundavadi at 4 m., bridged. Route 15 crosses here.
		80m. 5f.	<i>Camping ground</i> .—20 acres to W. and 10 acres to S. <i>Water</i> .—Scarce; for 100 men and 50 animals. <i>Fuel</i> .—25 cartloads. <i>Fodder</i> .—500 acres grazing at 3 m. for 2,000 animals. <i>Supplies</i> .—Grain for 200 men and 20 animals for 2 days. Vegetables <i>nil</i> ; sheep 8; goats 10. 6 m. Chimmamane; 10 m. Kohalli.
		9	SAULANGA.—8 m. 3 f. A small village, with a 3rd class travellers' b. p. (283). bungalow. Road fairly good and fit for motors; streams bridged. Country undulating and well cultivated, low jungle here and there; soil black and red alternately.
		89m. 0f.	<i>Camping ground</i> .—3.5 acres, S. of village. <i>Water</i> .—From a large tank. <i>Fuel</i> .— <i>Nil</i> . <i>Fodder</i> .—30 grazing acres at $\frac{1}{2}$ m. for 250 animals. <i>Supplies</i> .—Grain, very scarce; oxen <i>nil</i> ; sheep 10; goats 10; vegetables <i>nil</i> . 6 m. Karanehalli.
		10	HONNALL.—12 m. 2 f. Road fit for motors. b. p. Cross the Tungabhadra river, unbridged
		101 m. 2f.	(bridge under construction). <i>Vide</i> Route No. 42, stages 15 to 23.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44.	
Civil.	Military.			
DEPUTY COMMISSIONER OF CHITALDOGG.	GENERAL OFFICER COMMANDING, BANGALORE.	11	MALEBENNUR.—11 m. Road fit for motors. <i>b. p.</i> Cross Tungabhadra river, unbridged (bridge under construction). <i>Vide</i> Route No. 42, stages 15 to 23.	
		112 m. 2 f.		
		12	HARIHAR.—12 m. Same as No. 12. Cross <i>b. p. t. r.</i> Sulaykenhalli (6 m.), bridged. <i>Nalas</i> are bridged.	
		124 m. 2 f.		
		13	TILGL.—12 m. Road fit for motors. Cross the <i>p.</i> Tungabhadra river, unbridged. <i>Vide</i> Route No. 42, stages 15 to 23.	
		136 m. 2 f.		
		14	HARPANAHALLI.—12 m.	
		148 m. 2 f.		
		15	NANDI BEVUR.—10 m.	
		158 m. 2 f.		
COLLECTOR OF BELLARY, BELLARY.		16	ULUVATTI.—9 m. 7 f.	
		168 m. 1 f.		
		17	BELLAHALLU.—6 m. 4 f.	
		174 m. 5 f.		
		18	NARAYANDEVERKERI.— 10 m. 4 f.	
		185 m. 1 f.		

Road fit for
motors. Cross
the Tunga-
bhadra river;
unbridged.
Vide Route No.
42, stages 19 to
23.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	19	HOSPET.—10 m. 5 f. Road as before. <i>Vide b. p. t. r.</i> Route No. 38, stage No. 35.
		195 m. 6 f.	VENKATAPUR.—10 m. 4 f. At about 7 m. (740). pass Kamalalage, pur, a good-sized vil-
		20	lage, near the ruins of Hampi. Metalled road, fit for motors, but difficult to cross Gundlakeri <i>vankia</i> , close to village. Cross 6 <i>nalas</i> , un-
		206 m. 2 f.	bridged and 4 bridged. Soil dry. Country mostly open and cultivated. <i>Camping ground</i> .—None set apart, but there are about 740 acres W. of the village. <i>Water</i> .—Ample supply; from Tungabadhra channel, closed in January and February. <i>Fuel</i> .—30 headloads. <i>Grazing</i> .—1,000 acres at 1 m. for 500 animals for 10 days. <i>Supplies</i> .— <i>Nil</i> . 1½ m. Anantisayangudi (809); 2¼ m. Kudirnarayan (504); 3 m. Malpayadi (1,077); 7 m. Kaneshpuram (5,482).
		21	ARLAHALLL.—13 m. 3 f. A small village. (237). Road metalled, but not in good repair; unfit for motors, but fit for wheeled transport. Country open; scattered cultivation. At 1 m. pass Kampli (where Route No. 18 is crossed), a large village, with a good camping ground and abundant supplies. At 2¾ m. cross a stream, unbridged, but always fordable. <i>Camping ground</i> .—15 acres, N.-W. of village; extra space of 48 acres, S. of village. <i>Water</i> .—Unlimited supply from the river. <i>Fuel</i> .— <i>Nil</i> . <i>Fodder</i> .—Grazing 105 acres ¾ m. for 200 animals. <i>Supplies</i> .—Grain, goats and vegetables <i>nil</i> ; oxen 5; sheep 25.
		219 m. 5 f.	

No. 44 (1).

FROM HALDAI TO ANVATTI AND SHIMOGA DISTRICT
BOUNDARY.

A fair-weather road, except between Sagar and Shiralkappa; where it is metalled, but difficult in the rainy season. Numerous unbridged large and small streams, chiefly between Haladi and Sagar

Directions — North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44 (1).
Civil.	Military.		
COLLECTOR OF SOUTH KANARA, MANGALORE.	GENERAL OFFICER COMMANDING, BANGALORE.		HALADI.
		1	VANASE.—15 m. 0 f.
		15m. 0f.	
		2	KOLLUR.—13 m. 0 f. Ascend a hill.
		28m. 0f.	<i>p.</i>
		3	NAGODI.—8 m. 7 f.
		36m. 7f.	
		4	BANHATTI.—7 m. 5 f. A small village with <i>b.</i> an inspection lodge.
		44m. 4f.	
		5	AVINHALLI.—14 m. 5 f. A small village with <i>b.</i> a rest-house.
		59m. 1f.	
		6	SAGAR.—6 m. 7 f.
		<i>b. p.</i>	
		66 m. 0f.	

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	

ROUTE NO. 44 (1).

DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA,	GENERAL OFFICER COM- MANDING, BANGALORE.	7
		89 m. 0f.
		8
		104 m. 5 f.
		9
		110 m. 0f.

SHIRALKOPPA.—23 m. 0f.

p.

ANVATTI.—15 m. 5 f.

DISTRICT BOUNDARY.—5 m. 3 f.

No. 44 (2).

FROM SHIRALKOPPA TO SORAB.

A fair-weather track.

Direction.—West.

DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.	
		1
		10 m. 0f.

SHIRALKOPPA. An important town, with
p. more than 500 houses and possessing a

large amount of trade; camping-ground on both sides of village; water from wells and tanks in the vicinity; 12 miles from Hirekerur (on the N.-E.), the road from which is good; soil red; country open, flat and cultivated.

SORAB.—10 m. 0f. A town situated on the
b. p. Dandavati river; 500 houses, 40 shops;

the chief place of the sub-division; Tahsildar's court-house here; camping-ground on both sides of the place; water from the stream; road good; soil white; country flat and jungly. Siddapur is 15½ m. W.

No. 44 (3).
FROM ULAVI TO SORAB.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44 (3).
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMAND- ING, BANGALORE.		ULAVI.— <i>p.</i>
		1 8m. 6f.	SORAB.—8 m. 6 f. <i>b. p.</i>

No. 44 (4).
FROM KALLURKATTE TO LAKSHMIPUR.

Cross numerous large and small streams, unbridged, fair-
weather road only.

Direction.—West.

DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMAND- ING, BANGALORE.		KALLURKATTE. <i>b. p.</i>
		1 9m. 0f.	LAKSHMIPUR.—9 m. 0 f.

No. 44 (5).

FROM KALLURKATTE TO ANANTAPUR.

Cross three streams, unbridged. A district fund road ; practicable in the dry season only.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 44 (5).
Civil.	Military.		
DEPUTY COMMISSIONER OF SHIMOGA, SHIMOGA.	GENERAL OFFICER COMMANDING, BANGALORE.		KALLURKATTE.— <i>b. p.</i>
		1	MAVINAHOLE.—17 m. 0 f.
		17m. 0f.	
		2	ANANTAPUR.— <i>b. p.</i>

ROUTE NO. 45.

FROM CUDDAPAH TO KURNOOL.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Total distance 123 m. 0½ f.

13 Stages.

Epitome.—Direction—North-west. This road is metalled and, for the most part, bridged between Cuddapah and Kurnool; the Pennar and other large streams at times remain in flood for two or three days, when traffic is stopped; but, as a rule, the road is practicable at all seasons; the hill Timmarajupalli is a mile long, with gradients varying from 1 in 15 to 1 in 30. Thence it is a fair-weather track, much cut up by unbridged rivers and *ulads*, impracticable in the rains.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 45.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.	1	CUDDAPAH.— <i>Vide</i> Route No. 24, stage No. <i>p.r.</i> 36.
		13m. 3 f.	PATUR.—13m. 3f. A large village. At 6½m. (2,647). Chinnur, a large village on the bank of the Pennar, which has a heavy sandy bed; 2 boats in the rains. Soil black and red. At 6½ m. cross the Pennar River, unbridged, but fordable, except in flood. Road metalled and gravelled and fit for motors. Country open and cultivated. 11½m. cross 2 streams, 220 yards, brick bridges. <i>Camping ground.</i> —Nil. <i>Water.</i> —From 1 well and canal, for 500 men and 200 animals. <i>Fuel.</i> —Nil. <i>Fodder.</i> —500 acres grazing within 1 mile.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 45.
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT WELLINGTON.		<p><i>Supplies.</i>—Grain from Khatipet (1m.) and Appampalai (2m.) for 1,000 men and 1,000 animals. Oxen 20; sheep 120; goats 150; vegetables in small quantities.</p>
		2	<p>MAIDAKUR.—6m. 2f.—A large village. Route (3,883). No. 46 crosses here. Road and country as before.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From wells, for any number.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 1,000 animals for 7 days; oxen and vegetables nil; sheep 100; goats 5.</p>
		19m. 5f.	
		3	<p>CHINTAKUNTA.—4m. 1f. A large village. (2,219). Road and country as before. Country flat, open and cultivated.</p> <p><i>Camping ground.</i>—133 acres near, in dry paddy fields.</p> <p><i>Water.</i>—From a tank and the Cuddapah Kurnool Canal and wells, for any number.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 1,000 animals for 7 days. Oxen and vegetables nil; sheep 100; goats 5.</p>
		23m. 6f.	
		4	<p>DHUVUR.—5m. 1½f. A large village; (2,555). feverish. Road and country as before; the canal is bridged.</p>
		28m. 7½f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 45.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.	<p><i>Camping ground.</i>—Very small, surrounded by paddy fields.</p> <p><i>Water.</i>—For any number; from Cuddapah Kur-nool Canal.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 200 men and 200 animals for 7 days. Oxen 20; sheep 20; goats 20; vegetables nil.</p> <p>2½ m. Guripad, (1,695).</p>
			<p>5</p> <p>37m. 7½ f.</p> <p>CHAGALMURRI.—9m. 0f. A large place; p. (3,477). notorious for thiev- es. Road metalled; first 5 m. only fit for motors; fit for trans- port throughout. Country undulating, open and cultivated. Cross Cuddapah-Kurnool Canal, bridged. Soil chiefly black.</p> <p><i>Camping ground.</i>—11 acres S. of village and dry cultivation near by.</p> <p><i>Water.</i>—From wells, for 500 men and 150 ani- mals.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 500 men and 100 animals for 1 week. Oxen nil; sheep 200; goats 100; vegetables (<i>brinjals</i>) plentiful.</p> <p>6 m. Govindapatti (1,458); 3 m. Dubaguntla (1,036); 13½ m. Nuncpalli.</p>
COLLECTOR OF KURNOOL, KURNOOL.	COLLECTOR OF CUDDAPAH, CUDDAPAH.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.	<p>6</p> <p>52m. 3½ f.</p> <p>ALLAGADDA.—14m. 4f. A small village; (925). metalled road, fit for motors; headquar- ters of the sub-district. Cross the Bhavanasi and Vakiler rivers, normally fordable, but the</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 45.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL. GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.			<p>former sometimes remains in flood for 7 or 8 days ; no boats available. Country open and cultivated.</p> <p><i>Camping ground.</i>—9 acres $1\frac{1}{2}$ m. S. and $8\frac{1}{2}$ acres $\frac{1}{2}$ m. W. of village.</p> <p><i>Water.</i>—From canal, well and tank ; unlimited from July to February ; other times scarce.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for a large number of men for 7 days at Thursday market ; for animals nil. Oxen nil ; sheep 5 ; goats 5 ; vegetables at Thursday market.</p> <p>$2\frac{1}{2}$ m. Nagalapad (100) ; $7\frac{1}{2}$ m. Peddabayanam (500) ; $9\frac{1}{2}$ m. Chintayammidine (490).</p>
		7 62m. 2 f.	<p>YERRAGUNTALA.—9 m. 7 f. A fair-sized village. Metalled road, fit for motors.</p> <p>Cross a stream (10 m.), bridged, and 1 stream ($3\frac{1}{2}$ m.), unbridged, fordable. Soil generally red. Country open and level.</p> <p><i>Camping ground.</i>—15 acres, to north, but, when water in the tank dries up, 5 acres are available south of village and dry fields near by.</p> <p><i>Water.</i>—From wells and the river, for 1,000 men and 200 animals.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 500 men and 100 animals for 4 days. Oxen nil ; sheep 100 ; goats 100 ; vegetables, October to January.</p> <p>6 m. Nellagarthi (810) ; 8 m. Batlur (988).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 45.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL. G. O. C., MADRAS DISTRICT, WELLINGTON.		8	MULASAGRAM.—15 m. A small hamlet. Metalled road, fit for motors. At 13 m. cross the Cuddapah-Kurnool Canal, bridged. Country open and cultivated. A branch road leads hence to Nandyal, which is 2 miles from the high road. Route No. 49 is crossed in this stage. <i>Camping ground</i> .—33·25 acres, east of village. <i>Water</i> .—Good supply; from Kundu River and wells. <i>Fuel</i> .—Notice required. <i>Fodder</i> .—5 acres grazing at 1 m., for 50 animals. <i>Supplies</i> .—Grain unlimited supply for men and animals; oxen 20; sheep 50; goats 50; vegetables in rains only.
		77 m. 2½f.	
		9	PANIAM.—9 m. A big village; metalled (3,698). road, fit for motors, at 6 f. cross Kunduru R., bridged, and 4 streams, bridged. Country open and cultivated. <i>Camping ground</i> .—5·25 acres, west of village; dry, open and level. <i>Water</i> .—From a fine tank in the vicinity, for 1,000 men and 1,000 animals. <i>Fuel</i> .—From Forest Reserve 2 m. away. <i>Fodder</i> .—Grazing within 3 m. for 500 animals. <i>Supplies</i> .—Grain for 200 men and 300 animals for 2 days. Oxen nil; sheep 50; goats 30; vegetables in rains only. 1 m. Vilmalpuram (995); 4 m. Kan bur (1,067); 5 m. Balpamer (1,323); 7 m. Yerranadda and Vaddagundla.
		86 m. 2½f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 45.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.			
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			
		10	TAMMARAZUPALLI.—9 m. A small village. Metalled road, fit for motors. Cross 1 stream bridged and, at 8 m., 1 unbridged, as a rule fordable. Country rocky, with dry cultivation.
		95m. 2½ f.	<i>Camping ground.</i> —Good and dry; 500—400 feet, ½ mile west of village; at times, this is under cultivation. <i>Water.</i> —From wells and <i>nala</i> ; scarce. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing <i>nil</i> . <i>Supplies.</i> —Grain, oxen and vegetables <i>nil</i> ; sheep 30; goats 50.
		11	SOMAYAZULAPALLI.—6 m. A small village; metalled road, fit for motors. Cross 4 streams, all fordable. Country cultivated near village, remainder rocky; ascend a hill.
		101m. 2½ f.	<i>Camping ground.</i> —None marked out, but 2 acres west of and 3 acres near village. <i>Water.</i> —From stream; for 300 men and 300 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —40 acres grazing at 2 m., for 200 animals. <i>Supplies.</i> —Grain for 100 men and 100 animals for 1 day; oxen <i>nil</i> ; sheep 25; goats 25; vegetables <i>nil</i> .
		12	NARNUR.—12 m. A large village. Metalled road, fit for motors. Cross 3 bridges. Country mostly rocky, with
		113 m. 2½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 45.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>dry cultivation.</p> <p><i>Camping ground.</i>—Suitable site hard to find, unless crops are off, when plenty of space is available north of village.</p> <p><i>Water.</i>—From stream close by and wells, for 500 men and 1,000 animals.</p> <p><i>Fuel.</i>—20 cartloads.</p> <p><i>Fodder.</i>—Grazing at 1 m., 120 acres, for 500 animals.</p> <p><i>Supplies.</i>—Grain for 200 men and 200 animals for 2 days; oxen 2; sheep 50; goats 50; vegetables available.</p> <p>2½ m. (1 m. from road) Hussainapuram (1,722); 7¼ m. Orakkal (1,544).</p>
		13	<p>KURNOOL.—9 m. 6 f. <i>Vide</i> Main Route <i>b.p., t.r.</i> VI, stage No. 40. Metalled road, fit for motors. Cross a <i>nala</i>, bridged. Cudda- patti-Kurnool Canal, bridged, and Hundri R., bridged. Country open and cultivated and rocky here and there. 37 m. Bandithandrapur (479).</p>
		123 m. 0¼ f.	

No. 45 (1).

FROM NEAR PATUR TO POREMAMLA.

Epitome.—Cross the Sagiler river, unbridged. Road made up to the end of the pass, which is $1\frac{1}{2}$ miles long, but a mere track beyond that.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 45 (1).
Civil.	Military.		
COLLECTOR OF CUDDAPAH.	G. O. C. MADRAS DISTRICT.	..	NEAR PATUR.
		1	JANGAMRAJPALLI PASS.—7 m. 6 f.—
		7 m. 6 f.	
		2	POREMAMLA.—15 m. $6\frac{1}{2}$ f.
		23 m. $4\frac{1}{2}$ f.	

No. 45 (2).

FROM YERRAGUNTLA TO KOILKUNTLA.

Epitome.—Cross the Kundar river, unbridged. A mere track, practicable for carts in the dry season only.

Direction.—West by South.

COLLECTOR OF KURNOOL, KURNOOL.	G. O. C., MADRAS DISTRICT.	..	YERRAGUNTLA.— p.
		1	KUNTALA.—12 m.
		12 m. 0 f.	

Distance approximate.

ROUTE No. 45 (3).
FROM KOILKUNTALA TO NANDYAL.

Direction—North North-East.

Epilome.—A fair-weather track only.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 45 (3).
Civil.	Military.		
G. O. C., MADRAS DISTRICT.	COLLECTOR OF KURNOOL, KURNOOL.	..	KOILKUNTALA.— <i>p.</i>
		1	NANDYAL.—22 m. 0 f.—Distance approximate. <i>p.t.r.</i>
		22 m. 0 f.	

No. 45 (4).

FROM NANDYAL TO MORYAKONDA.

Epilome.—A mere fair-weather track as far as Gadivemula; thence made and partially bridged to Morvakonda; the remainder of the road a mere track, which is, however, very good in the dry season.

Direction.—North-North-West.

COLLECTOR OF KURNOOL, KURNOOL.	G. O. C., MADRAS DISTRICT WELLINGTON.	..	NANDYAL.— <i>p.t.r.</i>
		1	GADIVEMULA.—14 m. 4 f.—Cross the Kali river, un- bridged.
		14 m. 4 f.	
		2	PARAMANCHALA.—9 m. 1 f.—A fair-sized village; camping ground good, high and open, $\frac{3}{4}$ m. short of village; water from wells; at 4 m. 5 f. pass through Gadivemula; small village with good camping ground and water near it.
		23 m. 5 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 45 (4).
Civil.	Military.		
G. O. C., MADRAS DISTRICT, WELLINGTON.	COLLECTOR OF KURNOOL, KURNOOL.	3	NAGATUR.—11 m. 6 f.—This village and Kodital, on the opposite side of the road, are of fair size ; camping-ground high and open, but very stony, $\frac{3}{4}$ m. short of village ; good and plentiful water from a canal ; at 7 m. 2 f. pass Mandlam, a small village, where Route No. 33 is crossed ; country rocky in last part of the stage.
		35 m. 3 f.	
		4	MORVAKONDA.—7 m. 1 f.—A small village ; the remains of a large fort on the bank of the Kistna river, just below its junction with the Tungabhadra river ; high camping ground south of village ; water from river and tanks ; country jungly and rocky in this stage.
		42 m. 4 f.	

No. 45 (5).

FROM GADIVEMULA TO ATMAKUR.

A mere fair-weather track.

Direction.—North-East.

G. O. C., MADRAS DISTRICT, WELLINGTON.	COLLECTOR OF KURNOOL, KURNOOL.	..	GADIVEMULA.
		1	ATMAKUR.—16 m. 4 f. p.
		16 m. 4 f.	

ROUTE No. 46.

FROM NELLORE TO YERRAGUNTLA.

Epi ome.—Road metalled; practicable at all seasons, except when the Penner is in flood; fit for motors, except in 2 stages. Total distance, 116½ miles, 12 stages.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		NELLORE.— <i>Vide</i> Main Route No. 3, stage <i>b.p.t.r.</i> No. 9.
		1 10m. 4f.	BUCHIREDDY.—10 m 4f. A small town, one PALEM mile north of road. Metalled road, fit for motors. Cross the Pennur river by the anicut and 4 channels, bridged. Country partly wooded and partly cultivated. A big reservoir near. <i>Water.</i> —Five wells, for 2,000 men and 500 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing, 1½ m., for 200 animals. <i>Supplies.</i> —Grain for 2,000 men and 500 animals for 2 days; oxen <i>nil</i> ; sheep 500; goats 200; vegetables available. Headquarters of the Sub-District Officer, Public Works Department. 6½ m. Darmaramody (2,562); 8½ m. Rebala (1,894); 9½ m. Chelaya-palam.
		2 20m. 3½f	SANGAM.—9 m. 7½ f. Metalled road, fit for p. (1,817). motors; country as before. At a distance of 7 f. south of road, on the north bank of the Penner river, an <i>anicut</i> across the river,

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46—
Civil.	Mili- tary.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		<p>with important irrigation works. Route No. 47 joins here. Cross 3 channels, bridged.</p> <p><i>Camping ground.</i>—One acre, north of village. In dry weather, fields near by can be used.</p> <p><i>Water.</i>—For 200 men and 50 animals.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing at $\frac{1}{2}$ m. for 500 animals.</p> <p><i>Supplies.</i>—Grain for 200 men for 1 day; oxen <i>nil</i>; sheep 200; goats 100; vegetables in small quantities.</p> <p>3 m. Duvvur (2,736); 5 m. Siddipuram (2,451); 8 m. Tharunivayam (813), 2 m. north of road.</p>
		3	<p>NELLOREPALEM.—10 m. 1 f.—A small village; metalled road, fit for motors.</p> <p>Country, jungle and cultivation alternately.</p> <p>At 5 m. cross Birapam stream, bridged.</p> <p><i>Camping ground.</i>—50 acres, west of village.</p> <p><i>Water.</i>—From well; supply scanty.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing <i>nil</i>.</p> <p><i>Supplies.</i>—Grain for 1,000 men for 10 days; oxen 500; sheep 1,000; goats and vegetable <i>nil</i>; Supplies available at Anama, Samudrampet, and Atmakur.</p> <p>At 5 m. Vasili (1,210).</p>
		30m. 4 $\frac{1}{2}$ f.	
		4	<p>NANDAVARAM.—9 m. 6 f.—A large village.</p> <p>p. (2,004). Metalled road, fit for motors; country generally open and cultivated; at 4$\frac{1}{2}$ m. the Boggeru stream, unbridged, fordable.</p> <p><i>Camping ground.</i>—About 14·31 acres south-east of and 300 acres, when uncultivated, near village.</p>
		40m. 2 $\frac{1}{2}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46—
Civil.	Military		
COLLECTOR OF NELLORE, NELLORE.	COLLECTOR OF NELLORE, NELLORE.		<p><i>Water</i>.—2 wells and tank, for 200 men.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—$\frac{8}{16}$ square m. grazing at $\frac{7}{8}$ m., for animals for 3 days.</p> <p><i>Supplies</i>.—Grain for 500 men and 100 animals for 3 days; oxen 10; sheep 20; goats 15; vegetables small quantity.</p> <p>4 m. Chiruvella Khandiga (134); 5 m. Kara Tampad (1,224); 8 m. Dharanerao Cheruvanpalli (1,918).</p>
		5	<p>MARRIPAD.—9 m. $4\frac{1}{2}$ f.—A small village. (1,912). Metalled road, fit for motors. Country open and cultivated.</p> <p><i>Camping ground</i>.—7.36 acres, south-west of village.</p> <p><i>Water</i>.—1 well, for 100 men only.</p> <p><i>Fuel</i>.—From Forest Reserve at $1\frac{1}{2}$ m.</p> <p><i>Fodder</i>.—Grazing in Forest Reserve for 100 animals for 3 days.</p> <p><i>Supplies</i>.—Grain for 500 men and 200 animals for 1 day; oxen nil; sheep 20; goats 15; vegetables nil.</p> <p>4 m. Panjur Khandiga (2,475).</p>
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	49m. $6\frac{1}{2}$ f.	
		6	<p>KADAVELLIPAD. A small place; metalled (KADIRIVENIPALLE.) 7 m. $4\frac{1}{2}$ f. road, fit for (200). motors. Country rocky and jungly. Cross stream, unbridged.</p> <p><i>Camping ground</i>.—10 acres $1\frac{1}{2}$ m. from village and 5 acres close by.</p> <p><i>Water</i>.—From tank and wells for 200 men and 100 animals.</p> <p><i>Fuel</i>.—From Forest Reserve at $\frac{1}{2}$ m.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46—
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C., MADRAS DISTRICT WELLINGTON.		<p><i>Fodder</i>.—100 acres grazing 2 m. from village, for 500 animals for 15 days, in rains.</p> <p><i>Supplies</i>.—Grain (ragi) only for 100 men for two days and 50 animals for 2 days; oxen and vegetables <i>nil</i>; sheep 20; goats 20.</p>
		7	<p>GOVAPARAM—11 m. 2 f.—A fairly large (2,100). village. Road metalled and gravelled.</p> <p>Country rough and wide, but, to the pass, cultivated. The pass has no great ascent or descent, but is a road winding among hills and thick jungle and in good order; all the <i>nalas</i> are unbridged, but practicable at all seasons; cross the Doranala pass and one stream, unbridged.</p> <p><i>Camping ground</i>.—For 1 regiment, east of village.</p> <p><i>Water</i>.—Scarce in dry weather.</p> <p><i>Fuel</i>.—Can be obtained in Forest Reserve near.</p> <p><i>Fodder</i>.—Can be obtained in Forest Reserve near.</p> <p><i>Supplies</i>.—<i>Nil</i>. 50 pairs draught bullocks available.</p>
		68 m. 4½ f.	
		8	
		72 m. 7½ f.	<p>BADVEL—4 m. 3 f. Road as before; country open and rocky.</p> <p><i>Vide</i> Route No. 24, stage No. 39.</p> <p>Pass Madaralavari Palli (1,300).</p>
		9	<p>HOTUMADAGU.—10 m.—A deserted village. Road is unfit for motors in this stage, otherwise as before. Country is jungly.</p> <p>Cross the Sagiler river at 4½ m., 500 ft., fordable.</p>
		82 m. 7½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46—
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			except in flood, which quickly subsides; no boats. <i>Camping ground.</i> —2.16 acres, for 1 regiment. <i>Water.</i> —From <i>nala</i> and wells; abundant. <i>Fuel.</i> —From Forest Reserve Depot. <i>Fodder.</i> —Abundant. <i>Supplies.</i> —Grain, with notice, in small quantities; oxen and vegetables <i>nil</i> ; sheep 200; goat 400. At 1 m. Gunthupalli (1153). 2 m. Chinnampalli (1749); 4 m. Nandipalli (900); 5 m. Kandrapalli (1520).
		10	MAIDAKUR.—13 m. 7½ f.—Road No. 45 crosses here. Road as before, fit for motors.
		96 m. 7 f.	
		11	PRODDUTUR.—12 m. A large town. Road <i>p.t.</i> (9,012). as before. Country, open and cultivated.
		108 m. 7 f.	Cross the Kundar river, unbridged, at 4 m. 200 yds. Two boats for 10 men each are available in rains. <i>Camping ground.</i> — <i>nil</i> . <i>Water.</i> —Abundant. <i>Fuel.</i> —Cut; 200 tons stacked. <i>Fodder.</i> —Grazing <i>nil</i> . <i>Supplies.</i> —Grain for 5,000 men and 3,000 animals for 7 days. Oxen <i>nil</i> ; sheep 50; goats 20; vegetable 500 lbs. daily. 6 m. Pallavalu (1253).
		12	YERRAGUNTALA.—7 m. 6 f.—Road and country as before.
		116 m. 5 f.	Road crosses 4 streams, all unbridged, fordable by carts at all

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46 (1).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.		G. O. C., MADRAS DISTRICT WELLINGTON.	<p>seasons. Cross the Penner river, unbridged, fordable. Route 38 crosses here.</p> <p><i>Camping ground.</i>—None near.</p> <p><i>Water.</i>—From a stream.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—A little grazing near the river.</p> <p><i>Supplies.</i>—Must be obtained from Proddutur. 3 m. Pollahunti (2423).</p>

No. 46 (1).
FROM NANDAVARAM TO UDAYAGIRI.

Cross the Bogaru river, unbridged. Road gravelled and metalled practicable at all seasons.

Direction.—North-East.

COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT WELLINGTON.	..	NANDAVARAM.— <i>p.</i>
		1	UDAYAGIRI.—18 m. 7 f. <i>p.</i>
		18 m. 7 f.	

No. 46 (2).

FROM FOOT OF THE DOMAUL HILL TO PAMAR.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46 (2).
Civil.	Mil- itary.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	DHOMAUH GHAT.— (At 62nd mile from Nellore.)
		1	BHATA.—3 m. 2 f.
		3 m. 2 f.	
		2	YEPILAGUNTA.—7 m. 5 f.
		10 m. 7 f.	
		3	NANDIPAUD.—2 m. 7. f. p.
		13 m. 6 f.	
		4	DATTALOOR.—5 m. 0 f.
		18 m. 6 f.	
		5	PAMAR.—18 m. 0 f.
		36 m. 6 f.	

No. 46 (3).

FROM PRODDUTUR TO DHUVUR.

Cross the Kundar river, unbridged. A mere track, practicable in the dry season only.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46 (3).
Civil.	Military.		
COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PRODDUTUR.— <i>p. t.</i>
		1	DHUVUR.—10 m. $6\frac{1}{4}$ f.
		10 m. $6\frac{1}{2}$ f.	

No. 46 (4).

FROM PRODDUTUR TO NEAR NARNUR *via* BAGANA
PALLI.

A mere track, impracticable for carts, except in the dry season.

Direction.—North-West.

COLLECTOR OF CUDDAPAH, CUDDAPAH.	G. O. C. MADRAS DISTRICT WELLINGTON.	..	PRODDUTUR. <i>p. t.</i>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 46 (4).
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.			
G. O. C., MADRAS DISTRICT, WELLINGTON.			
		1	NEAR NARNUR.—75 m. 0 f.—Pass Bagana-
		75 m.	p. palli at about 4
		0 f.	miles. Distance
			approximate.

ROUTE NO. 47.

FROM SANGAM TO YELLESWARAM FERRY.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—Direction—North-north-west. The road, as far as 8 m. beyond Kaligiri, is metalled and good, but beyond that, it is a mere cart track to Kanigiri, much cut up by *nalas*. Thence to Dupad, it is metalled, with the exception of the stage before Markapur, and bridged, except over the river Gundlakamma and one *nala*. The remainder of the road, as far as Yelleswaram Ferry, is really a mere track, fit only for foot passengers and pack animals. Total distance 186 m. 5½ f.—18 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE No 47.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	SANGAM.— <i>Vide</i> Route No. 46, stage No. 2. 7 m. Hassanapuram (442).
		1	CHERUMANA.—9 m. A big village; metalled (1,620). road, fit for wheeled transport. Country partly cultivated and partly jungle.
		9 m. 0f.	<i>Camping ground.</i> —30 acres, west of village and 20 acres near. <i>Water.</i> —From 5 wells, for 1,000 men and 1,000 animals. <i>Fuel.</i> —Nil. <i>Fodder.</i> —100 acres grazing at 1 m. 600 for animals.
		2	KALIGIRI.—11 m. A big village. Road p. r. (2200). metalled and gravelled and fit for motors: generally over low ground of black soil, but
		20 m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 47.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		<p>high and good towards the end; country flat, open and cultivated. Cross 2 streams, unbridged, fordable.</p> <p><i>Camping ground</i>.—11.68 acres east of village and 1.56 acres near.</p> <p><i>Water</i>.—From tank and wells, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—From Forest Reserve at 5 m.</p> <p><i>Fodder</i>.—Grazing available within 2 m. for 200 animals.</p> <p><i>Supplies</i>.—Grain, notice required; oxen 10; sheep 200; goats 50; vegetables occasionally only.</p> <p>6 m. Akbarabad (558); 5 m. Kanali Yedavalli (1,130); 7 m. Mustafapuram; Gumpalapad (991); 10 m. Velagapad (1046).</p>
		3	<p>BAMANPALLI.—10 m. 6 f. A very small (170). village. Of road first 8 m. metalled and fit for motors; then cart track only, fit for wheeled transport in dry weather. Country open; level, cultivated; rocky here and there. Cross 3 streams, unbridged, fordable, except for a few hours when in flood.</p> <p><i>Camping ground</i>.—7 acres, east of village and 6 acres waste land.</p> <p><i>Water</i>.—From nala and wells, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—From Forest Reserve at 5 m.</p> <p><i>Fodder</i>.—Grazing at 2 m. for 400 animals.</p> <p><i>Supplies</i>.—Grain, with notice, for 500 men and 500 animals for 2 days. Oxen and vegetables nil; sheep 100; goats 50.</p> <p>4½ m. Kudumula (200); 5½ m. Murthuragipalam (100).</p>
		30 m. 6 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 47.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.			7½ m. Mithagalam (100); 8 m. Jangalapatti (140).
		4	TYANKOTA.—13 m. 4 f.—A very small village, with 1 shop; no road, track only, unfit for wheeled transport. Country undulating; thick jungle part of the way, interspersed with cultivation; soil stony and sandy. Cross the Uppertern and Manner rivers, unbridged, fordable, except for a few hours when in flood. <i>Camping ground</i> .—40 acres north of village and 20 acres near. <i>Water</i> .—Unlimited; from a tank and 10 wells. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—300 acres grazing at ¼ m., for 200 animals, in rains only. <i>Supplies</i> .—Grain, oxen and vegetables nil; sheep 40; goats 50. ¼ m. Chintala Devi (200); 3½ m. Yerrobally (1,214); 5½ m. Ishadamerla (514); 5½ m. Renh Madugu (183); 9½ m. Badavada (100).
		44 m. 2 f.	
		5	CHERLAPALLI.—10 m. 2 f. A very small village. No road, track only, unfit for wheeled traffic. Country jungly and undulating. Cross many <i>na'as</i> , unbridged, fordable. <i>Camping ground</i> .—100 acres south of and 100 acres near village. <i>Water</i> .—From large tank and wells, for 200 men and 100 animals daily. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Grain, oxen, and vegetables nil; sheep 100; goats 100; 5 m. Pedanilapad (3,625).
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		54 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 47.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		6	KANIGIRI.—11 m. 1 f.—A large village, with 20 shops. No road; track unfit for wheeled traffic. Country open and generally level. Cross the Palar river and numerous <i>nalas</i> , unbridged, fordable, except in heavy flood. <i>Camping ground</i> .—6.72 acres west of village and 100 acres in a dry tank bed. <i>Water</i> .—Large tank to north-west and from wells, for 1,000 men and 400 animals. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Grazing in Forest Reserve at 2 m. for 100 animals. <i>Supplies</i> .—Grain for 100 men and 400 animals for 15 days. Oxen and vegetables <i>nil</i> ; sheep 50; goats 30. 2½ m. Polayaram (413); 3½ m. Kolagutla (188); 5 m. Vakamallanaripallam (375).
		65 m. 5 f.	
		7	HANUMANTAPAD.—7 m.—A large village. (1,217). Road good; gravelled and fit for motors. Country partly cultivated, partly rocky jungle. Cross stream; unbridged, fordable. <i>Camping ground</i> .—Open plain available 19.51 acres east of village and 50 acres near. <i>Water</i> .—Bad and scarce in the hot season; for 50 men and 100 animals only. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Nearly 800 acres grazing in Forest Reserve at 2 miles, for 200 animals. <i>Supplies</i> .—Grain for 200 men for 10 days; oxen 188; sheep 1100; goats 500; vegetables, country only for 50 men.
		72 m. 5 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 47—
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	8	TADAVARIPALLI.—12 m. 4 f.—At 6½ m. (960). pass Vemulapad, at foot of hill. Road
		85 m. 1 f.	metalled and fit for wheeled transport. Country hilly, rocky and jungly, with scattered cultivation. Pass over the Vemulapad Hill. Cross 2 streams, unbridged, fordable. Route No. 49 joins here. <i>Camping ground.</i> —2·50 acres east of village and adjacent waste land. <i>Water.</i> —For 200 men and 100 animals; good but not plentiful. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grain at 2 m. for 100 animals. <i>Supplies.</i> —Grain for 100 men and 100 animals one day: oxen 20; sheep 100; vegetables <i>nil</i> . At 3 m. Thimmandipalli (2012); 5 m. Gangamvaripalli; 6½ m. Vemulapad (1,700, including the former village).
		9	CUMBUM.—13 m. 0 f.— <i>Vide</i> Route No. 24, b. p. r. stage No. 45. Metalled road, fit for
		98 m. 1 f.	motors. First 5 m. jungle, then open cultivation. Cross stream at 3 m., bridged, and at 5½ m. unbridged, fordable. Yenuma river 8 m., unbridged, fordable except in heavy flood. At 4 m. Thinevapalli; 10 m. Papagapali (541); 11 m. Betnavarapet (2124).
COLLECTOR OF KURNOOL, KURNOOL.		10	ENCAMPING GROUND.—8 m. 2 f.—First 4 m.
		106 m. 3 f.	metalled and fit for motors, thence fit for wheeled transport. The village of Bagatpalli on the right bank of the river is a good-sized one. The river is 100 yds. wide, and has steep

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 47.
Civil.	Military.		

COLLECTOR OF KURNOOL, KURNOOL

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON,

11

114 m.
2½ f.

banks of red soil and a sandy bed. Country open, undulating and cultivated. Cross at 11 m. the Gundlakamma river, unbridged, usually fordable, and one stream at 1 m. bridged.

Camping ground.—Enough for 3 regiments to camp on the left bank of the river; 20 acres north of stage and 10 acres near.

Water.—From wells and tank; for 1,000 men and 1,000 animals.

Fuel.—Nil.

Fodder.—Nil.

Supplies.—Ragi only for 500 men for 5 days.

Horse-gram nil; other supplies nil.

5 m. Kardalapuram (1,285); 8 m. Bodicherla.

MARKAPUR.—7 m. 7½ f.—A large place; road p. t. (5,144).

in bad repair, but

fit for wheeled trans-

port; headquarters of the sub-district; country undulating; open, and cultivated; soil variable and stony.

Camping ground.—To south, on rather rocky soil; 20 acres and 15 acres near.

Water.—From tank and river, for 5,000 men and 4,000 animals.

Fuel.—Very scarce.

Fodder.—100 acres grazing at 2 m.; for 400 animals.

Supplies.—Grain for 1,000 men and 400 animals; for 4 days: oxen and vegetables nil; sheep 10 daily; goats 10 daily.

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	

ROUTE No. 47.

COLLECTOR OF KISTNA, MASULIPATAM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	12	KACHERLAKOTA.—8 m. 0½ f. A good-sized place and fort. Metalled and gravelled road, fit for wheeled transport, but it is not maintained in good repair. Country and soil as above. The <i>nala</i> crossed at 3 m. 5 f. has steep banks and a sandy bed, unbridged. <i>Camping ground</i> .—On cultivated land. <i>Water</i> .—From large tank and 5 wells, for 200 men and 1,500 animals. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—100 acres grazing at 2 m., for 1,000 animals. <i>Supplies</i> .—Grain for 500 men for 7 days, and 200 animals for 7 days; oxen 1; sheep 10; goats 5 (all daily supply); vegetables <i>nil</i> .
		122 m. 3 f.	
		13	DUPAD (FORT).—6 m. 5½ f.—A good-sized place. Road not maintained and unfit for wheeled traffic. Country cultivated near village. The Gundlakamma is crossed at 1 m. 6½ f., and its banks are difficult for carts; the Tigalair river is crossed at 4 m. 4¾ f., and has steep, rocky banks. The Gundlakamma and Tigalair rivers are unbridged, but fordable, except in heavy flood. Route No. 50 crosses here. <i>Camping ground</i> .—Very extensive, south of village. <i>Water</i> .—For 5 men and 500 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—50 acres grazing at 2½ m., for 500 animals. <i>Supplies</i> .—Grain for 200 men and 100 animals for 4 days. Oxen and vegetables <i>nil</i> ; sheep and goats 1 each per day.
		129 m. 0½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 47.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.		14	KOMAROLE.—14 m.—A fair-sized village. (1,605). Road not in good repair, but fit for wheeled transport; open for 5 m., then 3½ m. low jungle and rocks; thence make some ascents and descents; soil red. Cross 6 <i>nalas</i> , unbridged, fordable.
		143 m. ½ f.	<i>Camping ground</i> .—5 acres north and 1 acre south of village.
			<i>Water</i> .—Stream close by for 1,000 men and 1,000 animals.
			<i>Fuel</i> .—Obtainable.
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<i>Fodder</i> .—200 acres at ¼ m., for 500 animals.
			<i>Supplies</i> .—Grain or 500 men for 4 days; oxen 2; sheep 10; goats 10 (all daily); vegetables <i>nil</i> .
			4 m. Surunaikpalam; 7 m. Narsayapalam; 10 m. Morradipalam.
		15	DEVAPALLI.—12 m.—A petty village. Road
			KANAMA. is an ordinary cart track, not maintained; very difficult for wheeled traffic. Country hilly, jungly and rocky. Cross a <i>nala</i> , unbridged, and make several ascents and descents. Cross the Merrikavalla stream, unbridged, fordable, 5 times.
		155 m. ½ f.	<i>Camping ground</i> .—50 acres, south-west of village.
			<i>Water</i> .—From 2 wells, for 1,000 men and 1,000 animals.
			<i>Fuel</i> .—Available.
			<i>Fodder</i> .—1,000 acres grazing within 4 m., for 10,000 animals.
			<i>Supplies</i> .—Not available.

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	

ROUTE No. 47—

COLLECTOR OF KISTNA DISTRICT, MASULIPATAM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	16	KANDLAKUNTA.—14 m. 5 f.—A large village. (1,892). Cart track only; very difficult for wheeled transport. Country hilly and partly cultivated. Cross six streams, unbridged, unfordable for a few hours after heavy rain. <i>Camping ground</i> .—5 acres, north of village, $\frac{1}{2}$ m. distant, in a tamarind grove. <i>Water</i> .—From tanks and 3 wells. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—4,000 acres grazing within 2 m., for 2,000 animals. <i>Supplies</i> .—Not available. 7 m. Srigiripadur (3,447); 11 m. Gottipallur (400).
		169 m. 5 $\frac{1}{2}$ f.	
		17	KOPPANUR.—8 m. 0 f.—A village. No road, (2,017). only a footpath fit for pack bullocks, horses and mules. Cross the Kanalvagu river, unbridged but fordable; cross some hills. Country hilly. <i>Camping ground</i> .—4 acres, south of village. <i>Water</i> .—From wells and tank, for 100 men and 1,000 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—1,000 acres grazing within 2 m., for 10,000 animals. <i>Supplies</i> .—Not available.
		177 m. 5 $\frac{1}{2}$ f.	
		18	YELESWARAM FERRY.—9 m. 0 f.—This is on the right bank of the Kistna and there is a basket float for ferrying purposes. There is no road, the route being through hills
		186 m. 5 $\frac{1}{2}$ f.	

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	

ROUTE NO. 47.

COLLECTOR OF KISTNA
DISTRICT, MASULIPATAM.G. O. C. MADRAS, DISTRICT,
WELLINGTON.

and jungles, except for the last 3 m., when it is on plain ground, quite unfit for wheeled traffic. Cross a small stream, unbridged but fordable.

Camping ground.—4 acres, near village.

Water.—From Kistna river, unlimited.

Fuel.—Obtainable.

Fodder.—300 acres grazing within 2 m. for 4,000 animals.

Supplies.—Nil.

2 m. Bellamkovah (600) ; 6 m. Pullareddi (100).

No. 47 (1).

FROM KALIGIRI TO PAMAR.

Direction.—North-West.

COLLECTOR OF NELLORE, NELLORE.

G. O. C. MADRAS, DISTRICT,
WELLINGTON.

KALIGIRI

P.

1

PAMAR.—23 m. 3 f.

3m. 3 f.

ROUTE NO. 47 (2).

FROM KALIGIRI TO SINGARAYA KONDA.

Cross several streams, unbridged; road metalled.

Direction.—North and North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 47 (2).
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT, WELLINGTON.		KALIGIRI.— <i>p.</i>
		1	CHUNDI.—23 <i>m.</i>
		23 <i>m.</i>	
		2	KANDUKURU.—15 <i>m.</i> 7 <i>f.</i> The seat of a zemindar.
		38 <i>m.</i> 7 <i>f.</i>	
		3	SINGARAYA KONDA.—9 <i>m.</i> <i>b.p.r.</i>
		47 <i>m.</i> 7 <i>f.</i>	

No. 47 (3).

FROM KANIGIRI TO CHINNA ARIKATLA.

Cross 3 drainage streams, unbridged.

Direction.—North.

COLLECTOR OF NELLORE, NELLORE.	G. O. C., MADRAS DISTRICT, WELLING- TON.		KANIGIRI.— <i>p.</i>
		1	CHINNA ARIKATLA.—11 <i>m.</i> 2 <i>f.</i>
		1 <i>m.</i> 2 <i>f.</i>	

ROUTE NO. 48.

FROM ALUR TO NAGALADINNE.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Epitome.—Direction.—North-east. As far as Nagaladinne, the road is metalled. Total distance 49½ miles—5 stages.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 48.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.		<p>ALUR.—A small town. On route No. 26; p. (3,574). near Horutu.</p> <p><i>Camping ground.</i>—14·88 acres, east of village.</p> <p><i>Water.</i>—From 5 wells, for 2,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—4 cartloads.</p> <p><i>Fodder.</i>—Grazing nil.</p> <p><i>Supplies.</i>—Grain for 500 men and 500 animals for 1 week; oxen nil; sheep 300; goats 300; vegetables, obtainable.</p>
		1 3 m. 4 f.	<p>HULABID.—3 m. 4 f.—A fair-sized village. (1,095). Metalled road, fit for motors. Country open and cultivated.</p> <p><i>Camping ground.</i>—2·12 acres, south-east of village.</p> <p><i>Water.</i>—From 3 wells, for 500 men and 200 animals.</p> <p><i>Fuel.</i>— } Nil.</p> <p><i>Fodder.</i>— }</p> <p><i>Supplies.</i>—Grain for 200 men and 200 animals for 5 days; oxen and sheep nil; goats 200 vegetables available.</p>

AUTHORITIES.		No. of stages and total distance.	ROUTE NO. 48.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, BANGALORE.	2	<p>ADONI.—13 m.—A large town and railway station. Metalled road, fit for motors. Road crosses several bridged and four unbridged streams fordable except in heavy floods; country flat and cultivated, soil black; Route No. 51 crosses here.</p> <p>Camping ground.—12·18 acres, so the east of town, and 15 acres near, after crops are cut.</p> <p>Water.—Abundant.</p> <p>Fuel.—100 tons.</p> <p>Fodder.—Grazing nil.</p> <p>Supplies.—Grain, large quantities available; oxen 50; sheep 200; goats 200; vegetables for 500 men for 1 day.</p> <p>2½ m. Manekunthu (601). 5 m. Karnerki (460). 6½ m. Avagi (460). 6½ m. Namapur (1,060). 8½ m. Dhanapur (955). 11 m. Kullubhari (1,184).</p>
		16 m. 4 f.	
		3	<p>KOTEKALLU.—11 m. 2 f.—A large village. (2,975). A metalled road, fit for motors; surface requires repair. Country undulating. Soil rocky and black in parts. Cross several bridged and 2 unbridged <i>nalas</i> and 2 streams, both said to be unfordable. The one at 11 m. is being bridged.</p> <p>Camping ground.—No land set apart. 6·89 acres south-west of Bodibauda, a hamlet of Kotekallu. 20 acres available after harvest.</p> <p>Water.—Good supply; from a <i>nala</i> and 2 wells.</p> <p>Fuel.—Nil.</p> <p>Fodder.—Grazing nil. Grass is obtainable from adjacent Forest Reserve.</p>
		27 m. 6 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 48.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY. GENERAL OFFICER COMMANDING, BANGALORE.			<p><i>Supplies.</i>—Grain, cholam only, for 100 men for 1 day. Oxen <i>nil</i>; sheep 120; goats 120; vegetables (brinjals) for 200 men for 2 days. 6½ m. Arakal. (492).</p>
		4 36 m. 6 f.	<p>YEMMIGANUR.—9 m.—A good-sized village. Metalled road, unfit for motors, but fit for wheeled transport. Soil black. Country open and flat, with cultivation. Cross 2 large <i>nalas</i>, unbridged, fordable, except during heavy floods. Bridges under construction. <i>Camping ground.</i>—<i>Nil</i>. <i>Water.</i>—From wells, for 1,000 men and 500 animals. <i>Fuel.</i>—<i>Nil</i>. <i>Fodder.</i>—<i>Nil</i>. <i>Supplies.</i>—Grain for 1,000 men and 500 animals for 1 week. Oxen 10; sheep 100; goats 50; vegetables for 200 men for 5 days. 6 m. Hanumaruram.</p>
		5 49 m. 6 f.	<p>NAGALADINNE.—13 m.—A large village. (2761). Road metalled, but unfit for motors; fit for wheeled traffic. Country open. Cross several <i>nalas</i>, unbridged; 2 large ones unfordable during floods. <i>Camping ground.</i>—<i>Nil</i>. <i>Water.</i>—Unlimited supply; from the river, on which the village is situated. <i>Fuel.</i>— } <i>Nil</i>. <i>Fodder.</i> }</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 48.
Civil.	Muni- tary.		

COLLECTOR OF
BELLARY,
BELLARY.

GENERAL OFFICER
COMMANDING,
BANGALORE.

Supplies.—Grain for 500 men and 500 animals for 3 days; oxen 3; sheep 50; goats 25; vegetables for 3 days.

2 m. Mugati (1,219). 4 m. Nandukaram (6,707).

ROUTE No. 48 (1).

FROM ADONI TO SIRUGUPPA.

Gravelled, and the small *nalas* bridged; practicable for carts at all seasons; river fordable, except in the rains, when a ferry is provided.

Direction.—West.

COLLECTOR OF BELLARY, BELLARY.	G.O.C., BANGALORE.	ADONI.— <i>p. t. r.</i>	
		1	SIRUGUPPA.—25 m. 6 f. Cross the Hagari river, unbridged.
		25 m. 6 f.	

ROUTE NO. 39.

FROM PEAPULLY TO MASULIPATAM.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Total distance 272 m. $1\frac{1}{4}$ f.

25 Stages.

Epitome.—Direction north-east. The road is metalled as far as Ongole and practicable at all seasons, there being only two unbridged rivers. Thence, except stage 17 to stage 22, it is a made road, fit for all transport; from 23 to end of route, it is mostly metalled and bridged, except the Kistna river. The Nandikanama hill is 17 miles long, with a maximum gradient of 1 in 18 and a mean of 1 in 30.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	PEAPULLY.— <i>Vide</i> Main Route No. VI, <i>b.p.</i> stage No. 35.
		13 m. 5 f.	JALADURGAM.—13 m. 5 f. A small village. (1,710). Metalled road, fit for motors; in fair order. Country cultivated; soil red; near the Rampur range, hilly and soil stony. Cross the Rampur hill. All <i>nalas</i> have road dams. <i>Camping ground.</i> —N. of village. <i>Water.</i> —From a <i>nala</i> and 2 wells, for 500 men and 500 animals. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —Grazing <i>nil</i> . <i>Supplies.</i> —Grain for 500 men and 500 animals, with 1 month's notice. Oxen <i>nil</i> ; sheep 500; goats 500; vegetables for 500 men, with one week's notice, except in hot weather.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF KURNOOL, GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			
			2
			21 m 5 f.
			3
36 m. 5 f.			<p>3½ m. Vengalampatti (872). 6½ m. Melluleni (1,277). 10¾ m. Ramapuram (1,461).</p> <p>PASUPULA.—8 m. A big village. Metalled road, fit for motors. Country at first hilly and jungly, then a cultivated valley. <i>Camping ground</i>.—14,000 sq. yds. S. of and 5,650 sq. yds. E. of village. <i>Water</i>.—From a <i>nal</i> and 7 wells, before entering the village. <i>Fuel</i>.—Available. <i>Fodder</i>.—Grazing at ½ m. for 500 animals. <i>Supplies</i>.—Grain, cholam, for 1,000 men for 10 days. Oxen 5; sheep 10; goats 10; vegetables <i>nil</i>. 3 m. Garladinne (627).</p> <p>BANGANAPALLI.—15 m. A municipal town. Metalled and gravelled road, fit for motors. The residence of the jagirdar. Country flat and jungly. Cross 2 streams; unbridged, fordable, except in flood. <i>Camping ground</i>.—100,000 sq. yds., N. of town. <i>Water</i>.—Wells, for 1,000 men and 1,000 animals. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Grazing <i>nil</i>. <i>Supplies</i>.—Grain (cholam and rice) for 2,000 men for 10 days. Oxen 5; sheep 10; goats 10; vegetables in cold weather only. 3½ m. Ghulamaliabad (183). 10 m. Pathapad (531). 11½ m. Vagantipalli (417).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.		4	<p>TELLAPURI.—11 m. 4 f. A small village, (484) near the Kundu River. Road metalled and gravelled, fit for motors. Country level and cultivated; soil black cotton. Cross 6 bridged and 2 unbridged <i>nalas</i>, fordable except in flood.</p> <p><i>Camping ground</i>.—No selected site. 2 acres on opposite bank of Kundu R. and 2 acres W. of village.</p> <p><i>Water</i>.—From Kundu; good supply, except in April and June.</p> <p><i>Fuel</i>.—Scarce.</p> <p><i>Fodder</i>.—Grazing <i>nil</i>.</p> <p><i>Supplies</i>.—Grain (cholam) for 500 men only for 2 days. Oxen 50; sheep 25; goats 25; vegetables, small quantities, November to January only.</p> <p>3½ m. Kifa (715). 5½ m. Appalapuram (547). 8½ m. Tangatoor (1,495). 10½ m. Ranipad.</p>
		48 m. 1 f.	
GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		5	<p>DIBAGUNTILA.—7 m. 4 f. A fair-sized (1,036) village. Mud road for first 3½ m., fit for wheeled transport; from there on metalled and fit for motors; country level and cultivated. Soil black cotton. Cross 1 bridged and 1 unbridged stream, fordable.</p> <p><i>Camping ground</i>.—½ sq. m. S. of village and dry fields near it.</p> <p><i>Water</i>.—Kurnool-Cuddapah canal and 2 wells; unlimited supply, except March to July.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—9·48 acres grazing within 2 m. for 50 animals.</p>
		55 m 5 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		<p><i>Supplies.</i>—Grain for 50 men for 3 days and 50 animals for 1 day; oxen <i>nil</i>; sheep 20; goats 100; vegetables, December-February only. 3½ m. Paserapad (800). 6 m. Nagalawaram (234).</p>
		6	<p>GAZULAPALLI.—6 m. 4 f. Metalled road, (840). fit for wheeled traffic only. Country undulating and hilly; open and cultivated, in parts. Soil red. Route No. 45 is crossed in this stage. Cross 1 stream bridged. At 2½ m. Chinnur R., 1 m. from road.</p> <p><i>Camping ground.</i>—½ sq. m. S. of village and ¼ sq. m. near.</p> <p><i>Water.</i>—6 wells, for 400 men and 400 animals.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing in Forest Reserve at 1½ m., for 200 animals.</p> <p><i>Supplies.</i>—Grain for 400 men and 400 animals for 4 d ys. Oxen 40; sheep 20; goats 20; vegetables <i>nil</i>.</p> <p>4¼ m. Boyalkunti (1,282).</p>
		62 m. 1 f	
		7	<p>HALTING GROUND.—11 m. 1½ f. (On the Nandikanama Hill.) Metalled road, for first four miles, fit for wheeled transport only; after that, fit for motors. Country cultivated for 1 first 3 m. Road narrow to the hill which begins at the 3rd mile; thence, on both sides, dense jungle and many ascents and descents are made. Cross 20 <i>nalas</i>, all fordable.</p> <p><i>Camping ground.</i>—10 acres and 6 acres near.</p> <p><i>Water.</i>—For 50 men and 50 animals; scarce in hot weather.</p>
		73 m. 2½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			<p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing plentiful and grass procurable.</p> <p><i>Supplies</i>.—Grain for 200 men and 200 animals for 3 days; oxen <i>nil</i>; sheep 50; goats 50; vegetables <i>nil</i>.</p>
		8	<p>KRISHNAMSETTIPALLI.—10 m. 0½ f.—A fair-sized village. Metalled road, fit for motors. Country rough; land wild until the hill is passed, and then it becomes open and level, and is cultivated. Cross 1 stream, bridged.</p> <p><i>Camping ground</i>.—Ample ground, when crops are cut; 24 acres W. of village and 8 acres near.</p> <p><i>Water</i>.—Wells and tank, for 500 men and 500 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—2,500 acres grazing at 3 m., for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 200 men and 200 animals for 1 week; oxen <i>nil</i>; sheep 50; goats 100; vegetables <i>nil</i>.</p> <p>6 m. Deguvamutli Railway Station.</p>
		83 m. 3 f.	
		9	<p>TATICHERLA.—11 m. 7 f. A small village. Metalled road, fit for motors. Country cultivated. At 4 m. pass Gidoalur (3,737), where there is good ground for camping, near a stream. Cross a river, unbridged, fordable.</p> <p><i>Camping ground</i>.—12 acres W. of village and 8 acres near.</p> <p><i>Water</i>.—5 wells and tank for 200 men and 200 animals.</p> <p><i>Fuel</i>.—Up to 100 cartloads, with notice.</p>
		95 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		<p><i>Fodder</i>.—494 acres grazing at 1 m., for 1,000 animals.</p> <p><i>Supplies</i>.—Grain <i>nil</i>; oxen <i>nil</i>; sheep 51; goats 50; vegetables <i>nil</i>.</p> <p>10 m. Daddavada (2,425).</p>
		10	<p>CUMBUM.—12 m. 2½ f. <i>Vide</i> Route No. 224, stage No. 45. Metalled road, fit for motors. Country open and cultivated. Soil red.</p> <p>5 m. Mokshaguntam. 12 m. Boswpet (2,126).</p>
		107 m. 6½ f.	
		11	<p>TADAVARIPALLI.—13 m. <i>Vide</i> Route No. 47, stage No. 8. Metalled road fit for wheeled traffic. Country jungle and cultivation.</p>
		120 m. 6½ f.	
COLLECTOR OF NELLORE.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	12	<p>PATHAPADU.—12 m. 4 f. A small village, p. (960). The road is made and metalled and has a maximum gradient of 1 in 10 and a minimum gradient of 1 in 20. Fit for wheeled transport, not motors. Country hilly and jungly.</p> <p><i>Camping ground</i>.—6 acres (bad ground), N. of village.</p> <p><i>Water</i>.—Very scarce in hot weather; other seasons good supply.</p> <p><i>Fuel</i>.—Obtainable up to 100 cartloads.</p> <p><i>Fodder</i>.—300 acres grazing within 3 m., for 500 animals.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 500 animals for one day. Oxen 20; sheep 50; goats 20; vegetables <i>nil</i>.</p>
		133 m. 2½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.		GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	5 m. Vemulapad (1,701). 7 m. Mahammadapuram (527); 9 m. Chinamanagundam (1,287); 11 m. Goplagattu (1,587).
		13	PODILI.—12 m. 6½ f. A large village; head-quarters of a deputy tahsildar. Road
		146 m. 1½ f.	metalled and fit for motors. Country open and cultivated. Cross 1 stream, bridged. <i>Camping ground</i> .—6 acres W. of village. <i>Water</i> .—20 wells, for 2,000 men and 1,000 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—1,500 acres grazing within 2 miles, for 2,000 animals. <i>Supplies</i> .—Grain for 1,000 men and 500 animals for 3 days. Oxen 100; sheep 200; goats 300, vegetables for 100 men. 3 m. Chinnarikatla (919). 9 m. Kambalapad (1,022).
		14	UPPALAPADU.—9 m. 2 f. A small village.
		155 m. 3¼ f.	Metalled road, unfit for motors. Country partly rocky and partly cultivated. Cross 1 stream, unbridged, fordable, except in heavy flood. <i>Camping ground</i> .—12 acres N.-E. of village and 14 acres dry land close by. <i>Water</i> .—From the Mushi R., for 1,000 men and 500 animals. <i>Fuel</i> .—Nil. <i>Fodder</i> .—200 acres grazing at 1 m., for 500 animals <i>Supplies</i> .—Nil. At 7 m. Tolamalla (536).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	15	SANTANUTALAPADU.—12 m. A large mercantile place ; mud road, unfit for motors. Country cultivated and hilly. Cross the Mushi R., unbridged, at 4½ m., 100 yds. fordable, except in rains. <i>Camping ground.</i> —30 acres, east of town. <i>Water.</i> —For 500 men and 500 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing for 150 animals, near town. <i>Supplies.</i> —Grain for 1,000 men and 500 animals; if 15 days' notice given ; other supplies <i>nil</i> . 2 m. Marripalum (600); 3½ m. <i>nala</i> , 32 ft., fordable, except in rains ; 7 m. Chinnakonthis (4,000); 11 m. <i>nala</i> , 30', fordable, except in rains.
		167 m. 3¼ f.	
		16	ONGOLE.—7 m. 6 f. <i>Vide</i> Main Route No. III, b. p. t. r. stage No. 16. Metal- led road, fit for motors. Country open and cultivated. 5½ m. Peknampetta (2,535).
		175 m. 1¼ f.	
		17	AMMANABROLE.—9 m. 5 f. A town ; railway station. Cart track in good repair, but unfit for motors. Country cultivated. The Gundaikamma river, passed at 3½ m., is 200 yds. wide and is provided with a raft ; the <i>nala</i> crossed at Ammanabrole is very deep during the monsoons and difficult to cross. <i>Camping ground.</i> — <i>Nil</i> . <i>Water.</i> —Very scarce. <i>Fuel.</i> —Scarce. <i>Fodder.</i> — } <i>Nil</i> . <i>Supplies.</i> — }
		184 m. 6¼ f.	
			At ¼ m. <i>nala</i> , 60 ft., fordable ; 3¼ m. <i>nala</i> , 100 yds., fordable ; 3½ m. Dasarazupalli ; 6½ m. Kharanadi.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.		18	CHINNAGANJAM.—11 m. A town; railway station a mile away from road. Road good, but unfit for motors. Country as before. Cross the Swarnamukhi river, unbridged, at 7 m., 70 yds. wide; 20 boats, for 20 men each, available.
		195 m. 6½ f.	<i>Campground</i> .—20 acres, W. of town; high and sandy. <i>Water</i> .—For 1,000 men and 500 cattle; usually scarce in summer. <i>Fuel</i> .—Cut, 100 tons stacked. <i>Fodder</i> .—100 acres grazing 1½ m. from town. <i>Supplies</i> .—Grain for 200 men and 200 animals for 7 days. Oxen <i>nil</i> ; sheep 100; goats 50; vegetables 50 baskets.
GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		19	VETAPALEM.—6 m. 6 f. A town; railway station. Road metalled; and country as before. There is a private bungalow in the village for officers. Cross several spring channels, unbridged, but provided with causeways and fordable.
		202 m. 4½ f.	<i>Camping ground</i> .—10 acres, near the road, in large palmyra grove. <i>Water</i> .—Good supply from wells, for 1,000 men and 500 animals. <i>Fuel</i> .—Cut, 500 tons stacked. <i>Fodder</i> .—Hay for 200 animals for 7 days. <i>Supplies</i> .—Grain for 500 men and 200 animals for 7 days. Oxen <i>nil</i> ; sheep 100; goats 50; vegetables 20 maunds.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Mili- tary.		
COLLECTOR OF GUNTUR, GUNTUR. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		20	BAPATLA.—14 m. 5 f. A small town ; railway station, headquarters of a Tahsildar and of a District Munsif ; the travellers' bungalow has a moderately large compound for a camping ground. Road gravelled and country as before. Cross several spring channels, unbridged, but fordable.
		217 m. 3½ f.	<i>Camping ground.</i> —The swamp, ½ a mile away, is suited for a camping ground in hot weather—16 acres. <i>Water.</i> —Abundant and good ; from springs and wells, for 1,500 men and 250 animals. <i>Fuel.</i> —Cut, 500 tons stacked. <i>Fodder.</i> —Hay for 250 animals. <i>Supplies.</i> —Grain for 1,000 men and 250 animals for 7 days. Oxen nil ; sheep 100 ; goats 50 ; vegetables 10 maunds.
		21	CHANDAVOLE OR TSANDAVOLU.—12 m. (4,973). A large village. First 8 miles only metalled, unfit for motors, but fit for wheeled transport. Cross Tungabhadra R. (6 m.), bridged, and 2 streams, unbridged, fordable, except in flood. Country open, flat and cultivated. Ponnur Railway station is six m. west of this stage. Cross 1 large <i>nala</i> , unbridged, but provided with a ferry-boat. <i>Camping ground.</i> —100 acres, W. of village ; two private mango-groves, S. of the village, suitable for encamping. <i>Water.</i> —Abundant supply ; from wells and canal, for 2,000 men and 2,000 animals. <i>Fuel.</i> —Obtainable.

AUTHORITIES.

No.
of
stage
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Civil.

Mili-
tary.

ROUTE NO. 49.

COLLECTOR OF GUNTUR, GUNTUR.

GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.

22

242 m.
6½ f.*Fodder.*—Grazing *nil*; grass with notice.*Supplies.*—Grain (rice) for 4,000 men for 1 year (Rice factory); for animals *nil*. Oxen 12; sheep 100; goats 100; vegetables small quantities.

6 m. Karlapalam (3,541); 7 m. Deeddam (715).

ADDEPALLI.—13 m. 3 f. A small village. (1,779). Five miles of road unmetalled, but fit

for all transport throughout. Country open and flat. Post Office in Bhattiprolu village, 1 furlong distant. The river rises in June and remains in freshet till the end of October, when it begins to subside. At this place, the river is split into two branches; the smaller, near Vellaturu (2½ m. from Addepalli), is ½ a mile broad and fordable from the end of December; the larger (6 m. from Addepalli) is also fordable from the end of December. Two ferry boats are provided to cross the river during the freshets. The villages on the banks are suitable for small detachments to halt at. Cross several small *nalas*, fordable, and Nezampatam Canal, unbridged, but provided with a ferry boat at 1½ m.

Camping ground.—A small grove, S. of village, is suitable; 5 acres.*Water.*—From 2 tanks, wells and the Kistna Canal for 4,000 men and 2,000 animals.*Fuel.*—40 tons stacked.*Fodder.*—Hay obtainable.*Supplies.*—Grain for 4,000 men and 2,000 cattle; oxen 370; sheep 200; goats 60; vegetables as required.

6 m. Ponnappalli (1,192); 8 m. Gudavalli (1,768); 10 m. Kanagala (3,362)

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR, OF KISTNA, MASULIPATAM. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		23	CHALLAPALLI.—11 m. 1 f. A small town; residence of a zemindar. First 2
		253 m. 7½ f.	TSALLAPALLI. m. metalled and fit for motors, thence mud road, fit for wheeled transport only. Country open and flat; wet cultivation throughout. Cross the Kistna river, unbridged, twice; boat available, if flooded. At 1½ m. and 4½ m. cross 1 stream, bridged. <i>Camping ground.</i> —A large mangoe grove near the travellers' bungalow suitable. No selected site set apart. <i>Water.</i> —1 tank and 4 wells for 2,000 men and 2,000 animals for 10 days. <i>Fuel.</i> —Nil. <i>Fodder.</i> —50 acres grazing at 2 m., grazing for 2,000 animals. <i>Supplies.</i> —Grain for 2,000 men and 2,000 animals for 5 days; oxen 500; sheep 400; goats 200; vegetables small quantities only. ½ m. Bhattiprolu (3,568); 2½ m. Vellatur (2,186); 4½ m. Kiskindhapalam (1,000); 6½ m. Nadakaduru (1,687); 7½ m. Puritagedda (704).
		24	MASULIPATAM.—16 m. A large town; road b.p.t.r. (42,123). is in fair repair and fit for wheeled transport. Country open and flat. Headquarters of the Collector, District and Sessions Judge and all other district officers. This is no longer a military station. Cross 8 <i>nalas</i> , unbridged, but provided with Irish bridges; five of these unfordable during freshets, but provided with ferry boats. Routes Nos. 50, 52 and 54 join here.
		269 m. 7½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM. GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.			<p><i>Camping ground.</i>—Open grounds all around the town suitable for camping, but covered with water during rains. 36.75 acres near the Collector's Office.</p> <p><i>Water.</i>—Abundant supply; from the Masulipatam canal and from wells.</p> <p><i>Fuel.</i>—100 tons.</p> <p><i>Fodder.</i>—200 acres grazing at $\frac{1}{2}$ m., for 500 animals.</p> <p><i>Supplies.</i>—Grain: paddy, to any extent; horse gram, 1,000 animals for 1 month. Daily for oxen 6; sheep 50; goats 20. Vegetables, occasionally.</p> <p>2$\frac{3}{4}$ m. Lakshimipuram (2,560); 4 m. Lankapalli (1019); 6 m. Majeru (905); 10 m. Gandupalam (254); 12 m. Rudravaram.</p>
		25	<p>MASULIPATAM OLD—2 m. 2 f. Now the FORT. suburb of the town</p> <p>b.p.t., (2,000). of Masulipatam; the old fort is destroyed. Road metalled and fit for motors.</p> <p>The old fort of Masulipatam, the site of which is 2 m. 2 f. from the town, having been dismantled and lost its importance, the distances of all routes having their commencement or ending in Masulipatam are calculated to and from the Central portion of the town called the "Robertson Sq." Route No. 55 starts here.</p> <p><i>Camping ground.</i>—8 acres, S. of town.</p> <p><i>Water.</i>—Plentiful; normally for 1,800 men and 1,800 animals. Channel closed from 15th March to 31st May.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing nil.</p> <p><i>Supplies.</i>—Nil.</p>
		272 m. 1 $\frac{1}{2}$ f.	

No. 49 (1).

FROM BANGANAPALLI TO NANDYAL.

Cross the Kundar river, unbridged. A mere track, unmetalled and unbridged, impracticable during the monsoon.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49 (1).
Civil.	Military.		
COLLECTOR OF KURNOOL.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	BANGANAPALLI. <i>p.</i>
		1 17 m. 0 f.	NANDYAL.—17 m. 0 f. <i>Vide</i> Subsidiary <i>p.t.r.</i> Route No. 45 (3).

No. 49 (2).

FROM GAZULAPALLI TO MULASAGRAM (NANDYAL).

Road metalled.

Direction.—North-West.

COLLECTOR OF KURNOOL.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	GAZULAPALLI.
		1	MULASAGRAM.—11 m. 0 f. <i>Vide</i> Route No. 45, stage No. 8.
		4 m. 0 f.	<i>r.</i>

No. 49 (3).

FROM PODILI TO KURICHEDU.

Cross the Munshi river, unbridged, and impassable when in flood.

Direction.—North by East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49 (3).
Civil.	Military.		
COLLECTOR OF NELLORE, NELLORE.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PODILI. <i>p.</i>
		1	DARSI —12 m. 4 f. <i>p.</i>
		12 m. 4 f.	
		2	KURICHEDU.—13 m. 0 f. <i>p.</i>
		25 m. 4 f.	

No. 49 (4).

FROM CHINNA GANJAM TO INKOLE.

Direction.—North by West.

COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS DISTRICT, WELLINGTON.		CHINNA GANJAM. <i>p.t.r.</i>
		1	INKOLE.—10 m. 4 f. <i>b. p.</i>
		10 m. 4 f.	

No. 49 (5).

FROM VETAPALEM TO SANTHARAVUR.

Cross the Romperu Channel. A fair-weather track, metalled, but unbridged; impracticable for carts in the rainy season. Santharavuru is at present the terminal point of the Bezwada Canal, but it is to be extended.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49(5).
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	VETAPALEM. <i>p.r.</i>
		1	SANTHARAVUR.—4 m. 0 f. <i>p.</i>
		4 m. 0 f.	

No. 49 (6).

FROM PERALA TO GURAJALA.

Cross the Kuppagunji Vagu twice, the Ogeru Vagu and the Romperudrain three times, all unbridged. A metalled road, always practicable for carts as far as Narsaravupet; thence a fair-weather track, unmetalled and unbridged, impracticable in the rainy season up to Nakrikal; remainder of road metalled.

Direction.—North-West.

COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PERALA.—4 m. beyond Vetapalem. <i>r.</i>
		1	PARCHOOR.—11 m. 4 f. At 1 m. from Perala <i>b.p.</i> pass Chirala— <i>p.t.</i>
		11 m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49(6).
Civil.	Military		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	2	CHILAKALURPET.—12 m. 0 f. <i>p.t.</i>
		23 m. 4 f.	
		3	NARSARAVUPET.—13 m. 0 f. <i>Vide</i> Route <i>b.p.t.r.</i> No. 50, Stage No. 15.
		36 m. 4 f.	
		4	NAKRIKAL.—13 m. 2 f. <i>Vide</i> Main Route <i>b.p.</i> No. III, Stage No. 22.
		49 m. 6 f.	
		5	GURAJALA.—27 m. 6 f. Cross the Nagaleru and Yarravagu rivers and two streams, unbridged.
		77 m. 4 f.	

No. 49 (7).

FROM BAPATLA TO GUNTUR.

Cross the Tungabhadra, impassable during heavy freshets. Road metalled and good.

Direction.—North-West.

COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	BAPATLA <i>b.p.t.r.</i>
		1	GUNTUR.—31 m. 4 f. <i>b.p.t.r.</i>
		31 m. 4 f.	

No. 49 (10).

FROM TENALI TO NARAKODURU.

A good metalled road.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49(10).
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	TENALI <i>b.p.t.r.</i>
		..	NARAKODURU.—9 m. 6 f. A railway station.

No. 49 (11.)

FROM MASULIPATAM TO SRIKAKULAM.

Cross the Kistna Canal and a surplus drain. This road follows Route No. 52 for 4½ m., beyond which it is a fair-weather track only.

Direction.—West.

COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		MASULIPATAM. <i>b.p.t.r.</i>
		1	SRIKAKULAM.—21 m. 6 f.
		21 m. 6 f.	

ROUTE No. 49 (8).

FROM CHANDAVOLE TO PONUR.

Road metalled.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 49 (8).
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS. DISTRICT, WELLINGTON.	..	CHANDAVOLE.
		1	PONUR.—6 m. 4 f.
		6 m. 4 f.	<i>b.p.t.</i>

No. 49 (9).

FROM INTUR TO PONUR.

Road bridged and metalled ; difficult in wet weather.

Direction.—West.

COLLECTOR OF GUNTUR, GUNTUR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	INTUR.
		1	PONUR.—6 m 0 f.
		6 m. 0 f.	<i>b.p.t.</i>

ROUTE No. 50.

FROM KURNOOL TO MASULIPATAM.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Total distance 244 m. $3\frac{1}{2}$ f.

22 Stages.

Direction North-East.

Epitome.—The road is metalled and in good order, except between Dupad and Mamuduvaram and between the Kistna river and Nidumolu; fit for motors, except in a few stages. It passes through several unbridged rivers and *nalas*, but these are rarely impassable, except after heavy rain. The Doranala hill is 10 m. long, but the gradients are easy and offer no obstacle to traffic. The unmetalled portion of road near the Kistna river is difficult to pass in wet weather from July to November.

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 50.

COLLECTOR OF KURNOOL, KURNOOL.

G. O. C., MADRAS DISTRICT, WELLINGTON.

1

9 m. 6 f.

KURNOOL.— *Vide* Main route No. VI, stage No. 40.
b.p.t.r.

GADIDEMADUGU.—9 m. 6 f. Road metal-
p. (2,664). led, fit for motors
and in good repair.

Country open and cultivated. About 500 houses. Pass Vengutla in this stage. Cross the Hindri river, bridged, and several *nalas*, bridged.

Camping ground.—There is but little camping ground near, except land under cultivation—5 acres, E. of village.

Water.—From wells, for 500 men and 500 animals.

Fuel.—Obtainable.

Fodder.—100 acres grazing at 2 m., for 300 animals.

Supplies.—Grain, for 200 men and 200 animals for 1 day. Oxen and vegetables *nil*; sheep 25; goats 25.

$5\frac{1}{2}$ m. Yenakalyapalli and Nardamapallu (1,512).

ROUTE NO. 50.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL. G. O. C., MADRAS DISTRICT, WELLINGTON.		2	NANDIKOTKUR.—9 m. 6 f. Road good and p. (3,531). bridged; metalled and fit for motors.
		19 m. 4 f.	Country open and cultivated. About 800 houses. <i>Camping ground</i> .—Good; private land S. of village. <i>Water</i> .—From wells, for 4,000 men and 500 animals. <i>Fuel</i> .—Nil. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 4,000 men and 500 animals; oxen <i>nil</i> ; sheep 10; goats 10; vegetables small quantities, July to October only. 4½ m. Brahmnaolkhur (1,754); 6¾ m. Bollavarum (563).
		3	JUPAD.—8 m. 4 f. A small village. Metalled b. (425). road, fit for motors.
		28 m. 0 f.	Country flat and slightly jungly; soil black, bad in wet weather. Two <i>nalas</i> , bridged. <i>Camping ground</i> .—Good, soil gravelly W. of village 1 m. <i>Water</i> .—From wells and from a canal 9 months of the year. Sufficient for 2,000 men and animals in hot weather. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—400 acres grazing at 1 m. <i>Supplies</i> .—Grain for 1,000 men and 250 animals; oxen, sheep and goats <i>nil</i> ; vegetables small quantities in cold weather. 4¼ m. Mandlam (1,583).
		4	KAMBALAPALLI.—8 m. 4 f. Metalled road, (54). fit for motors.
		36 m. 4 f.	Country, dry and

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL. G. O. C., MADRAS DISTRICT, WELLINGTON.			<p>wet cultivation. <i>Nalas</i> bridged and always fordable.</p> <p><i>Camping ground</i>.—N. of village; dry only in hot weather, and 10 acres dry land.</p> <p><i>Water</i>.—From canal and wells, for 2,000 men and animals, even in hot weather.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing, scarce.</p> <p><i>Supplies</i>.—Grain for 2,000 men and 500 animals for 3 days; other supplies <i>nil</i>.</p> <p>1½ m. Banuvor (494); 4½ m. Juttoor (733); 5½ m. Rudravarun (833); 7½ m. Pamalapad (628).</p>
		5	ATMAKUR.—7 m. A large village. Metal-
		43 m. 4 f.	<p><i>p.b.</i>, (6,687). led road, fit for motors. Country flat and slightly jungly. A Forest bungalow and tope close by. Cross 1 <i>nala</i>, bridged. Country cultivated at intervals.</p> <p><i>Campingground</i>.—10 acres, in hot weather only.</p> <p><i>Water</i>.—For 5,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—Obtainable from Forest close by.</p> <p><i>Fodder</i>.—Grazing scarce.</p> <p><i>Supplies</i>.—Grain for 5,000 men and 1,000 animals for 3 days. Oxen 2 <i>per diem</i>; sheep 10; goats 10; vegetables July to October only.</p> <p>1½ m. Yerraguddor (523).</p>
		6	HALTING GROUND.—13 m. 2 f. Road
		56 m. 6 f.	<p>metalled and fit for motors up to 48 m. only; after that, unfit for motors. Country flat, partially cultivated, with some low jungle; bamboo forest begins at 6 m. Cross the</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	G. O. C., MADRAS DISTRICT, WELLINGTON.		<p>Bhanavasi twice and several <i>nalas</i> (4 m. on stage).</p> <p><i>Camping ground</i>.—For a few companies, near the hill.</p> <p><i>Water</i>.—Sufficient for 500 men and 200 animals, even in hot weather.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—Grazing plentiful within $1\frac{1}{2}$ m.</p> <p><i>Supplies</i>.—Nil.</p> <p>4 m. Krishnapuram (832); $4\frac{1}{2}$ m. Pinnapuram (1,370).</p>
		7	<p>NALLAGUNTA.—14 m. 4 f. A fairly large village. Road is metalled, but not in good repair; fit for wheeled traffic. Road over the pass with numerous ascents and descents; very thick jungle all the way, except close to village. Cross stream, unbridged, fordable.</p> <p><i>Camping ground</i>.—Good and extensive, N.-W. of village, at the foot of the hills, and 10 acres near.</p> <p><i>Water</i>.—From tank and 2 wells, for 300 men and 200 cattle.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—1,000 grazing acres close by, for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 100 men and 100 animals for 1 day, oxen <i>nil</i>; sheep 100; goats 50; vegetables <i>nil</i>.</p> <p>3 m. Yedavalli (506); 6 m. Gantavairpelly (110).</p>
		71 m. 2 f.	
		8	<p>DORANALA.—14 m. $5\frac{1}{2}$ f. A village of fair size. Road metalled, but not kept in</p>
		85 m. $7\frac{3}{4}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>good repair; fit for wheeled transport. Country hilly on both sides, with much cultivation, soil red and stony. Cross numerous <i>nalas</i>, unbridged, fordable.</p> <p><i>Camping ground</i>.—E. and S. of village; 10 acres in each place.</p> <p><i>Water</i>.—Always; from the Figaler, a tank and wells, for 200 men and, 200 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—100 acres grazing within 2 m. for 400 animals.</p> <p><i>Supplies</i>.—Grain for 200 men for 5 days; oxen, sheep and vegetable <i>nil</i>; goats 10.</p> <p>11½ m. Vedana (616).</p>
		9	DUPAD.—20 m. <i>Vide</i> Route No. 47, stage
COLLECTOR OF GUNTUR, GUNTUR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	105 m. 7¾ f.	<p>p. No. 13. Road good, metalled and fit for motors. Hills on both sides of it. Country generally flat, occasionally undulating; dry cultivation. Cross 2 <i>nalas</i>, unbridged, fordable.</p> <p>6 m. Santhavaru (2,191); 8½ m. Maddalakatta; 12 m. Rajampalli.</p>
		10	A LARGE TANK.—11 m. 6 f. Road bad, fit
		117 m. 5¾ f.	<p>for country carts only. Country flat and cultivated. The river is impassable after rain. Cross the Duilar river, unbridged, fordable.</p> <p><i>Camping ground</i>.—Good; to S.-E. of Tirpur-antakum.</p> <p><i>Water</i>.—500 men and 500 animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—4,000 acres grazing at 1¼ m., for 2,000 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50.
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Supplies</i>.—Grain for 200 men and 200 animals for 3 days: oxen 100; sheep 500; goats 200; vegetables <i>nil</i>. 5 m. Ellapalli (527); 9 m. Kajapalli (609).</p>
		11	<p>MUMADUVARAM.—10 m. 3$\frac{3}{4}$ f. A small village, near which is the junction of the Gundlakanma and Kandle rivers; the river is 100 yds. broad, bed sandy, banks steep and of clay. Unmade road, fit for country carts only; country flat and cultivated. Cross 2 <i>nalas</i>, unbridged, fordable.</p> <p><i>Camping ground</i>.—On the right bank of the river, 5 acres S. and 2 acres near village.</p> <p><i>Water</i>.—From wells and tank, for 250 men and 250 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—1,500 acres grazing at $\frac{3}{4}$ m., for 500 animals.</p> <p><i>Supplies</i>.—Grain for 100 men and 100 animals for 3 days; oxen 25; sheep 200; goats 100; vegetables <i>nil</i>.</p>
		128 m. 1 $\frac{1}{2}$ f.	
		12	<p>VINUKONDA.—12 m. <i>Vide</i> Route No. 24, b. p. l. r. stage No. 51. Road and country as before. Cross the Kandle river, unbridged, at 1 m. 40 yds., fordable, except after heavy rain. The road crosses numerous small unbridged <i>nalas</i>, all fordable, except for a few hours after heavy rain.</p> <p>2 m. Kotthappalam, hamlet of Andugulapadu; 8 m. Sivapuram (300); 10 m. Timmasapalam (260).</p>
		140 m. 1 $\frac{1}{2}$ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50.
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		13	SAVALYPURAM.—6 m. 2 f. A small village. <i>p. t. r.</i> (800). Road is fit for motors. Country as before. Railway station $\frac{3}{4}$ m. distant. Cross 8 <i>nalas</i> , unbridged, but fordable, all provided with causeways.
		146 m. 3 $\frac{1}{2}$ f.	<i>Camping ground.</i> —W. of village, for 1 $\frac{1}{2}$ battalions. <i>Water.</i> —From the Konkeru river, unlimited. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing for 100 animals close to village. <i>Supplies.</i> —Grain and vegetables <i>nil</i> ; oxen 80; sheep 100; goats 100. At 1 $\frac{1}{4}$ m. Nagiriddipalli (100); 2 $\frac{1}{4}$ m. Narupuruddipalli (500); 4 $\frac{3}{4}$ m. Pedratrancherla; Tank supply channel, 15 yds., bridged.
		14	SANTAMAGLUR.—10 m. A large village. <i>p. r.</i> , (2,500). Road metalled and fit for motors throughout the stage. Country as before. A railway station bearing the same name, with a telegraph office, is three miles from this stage. Cross the Konkeru stream, 150 yds., bridged, fordable, and 7 other small jungle streams, unbridged, but provided with causeways and fordable, and one stream, bridged.
		156 m. 3 $\frac{1}{2}$ f.	<i>Camping ground.</i> —N.-W. of village and S. of old village, for 1 infantry brigade. <i>Water.</i> —Only sufficient for men and animals of one company (about 200 men). <i>Fuel.</i> —Scarce. <i>Fodder.</i> —Grazing scarce. <i>Supplies.</i> —Grain for 200 men and 200 animals for 1 day. Oxen and vegetables <i>nil</i> . At 3 $\frac{1}{2}$ m. Chantavaripalam (200).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50.
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	15	NARSARAVUPET.—10 m. 4 f. A small town. <i>b. p. t. r.</i> (9,000). Road and country as before. Country open and flat. A railway station.
		116 m. 7½ f.	Cross several small streams, unbridged, but fordable, provided with causeways, the Ogeru and the Palapadu Vagu, bridged, provided with causeway, unfordable during heavy freshets. Main Route No. III is crossed in this stage. <i>Camping ground.</i> —None registered, but space available close to town, when crops are cut. <i>Water.</i> —Is sufficient for men and animals of 2 battalions, except in hot weather. <i>Fuel.</i> —5 tons cut, stacked; otherwise scarce. <i>Fodder.</i> —Grazing for hire; for 500 animals within 1 m. <i>Supplies.</i> —Grain available in large quantities; oxen <i>nil</i> ; sheep 50; goats 50; vegetables in season only in small quantities. 4 m. stream, 250 yds., bridged; 4½ m. Petluri palam (950); cross <i>nala</i> , 12 yds., bridged; 7 Yuppalapadu.
		16	SATULUR.—4 m. 4 f. A large village. <i>p. t. r.</i> (2,500). Road and country as before. Railway station 1 m. distant. Cross six <i>nalas</i> , unbridged, but provided with causeways and fordable. <i>Camping ground.</i> —For 1 battalion, S. of village, in a tamarind grove, on high, sloping ground. <i>Water.</i> —Sufficient for 350 men and animals, after rains; in dry weather, for 100 men and 20 animals only.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50.
Civil.	Milit- tary.		
COLLECTOR OF GUNTUR, GUNTUR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	17	<p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing scarce.</p> <p><i>Supplies.</i>—Grain for 200 men and 50 animals for 1 day; oxen 50; sheep and goats, <i>nil</i>; vegetables in small quantities, in cold weather. 1½ m. <i>nala</i>, unbridged, fordable. 2 m. Jouna-lagadda.</p>
		181 m. 1½ f.	<p>PHIRANGIPURAM.—9 m. 6 f. A large village. Road and country as before.</p> <p>Railway station. A Roman Catholic settle-ment.</p> <p>Cross 3 large <i>nalas</i>, unbridged and unfordable during heavy rains; also several small <i>nalas</i>, unbridged, but fordable; all provided with causeways.</p> <p><i>Camping ground.</i>—To S.-W. of village.</p> <p><i>Water.</i>—From wells and tanks.</p> <p><i>Fuel.</i>—</p> <p><i>Fodder.</i>—</p> <p><i>Supplies.</i>—Nil.</p> <p>½ m. Repudi (850); 5½ m. Nudurapad (1,400); 6½ m. Minkipodi (1,500).</p>
COLLECTOR OF KISTNA, MASULIPATAM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	18	<p>GUNTUR.—13 m. 4 f. <i>Vide</i> main route No. V, Stage No. 59.</p>
		194 m. 5½ f.	<p>Road as before, but not fit for motors. Country hilly and culti-vated.</p> <p>2 m. Yabalimped; cross <i>nala</i>, fordable.</p> <p>2½ m. Sallinapalli; <i>nala</i>, fordable.</p> <p>9 m. Nallapad; cross <i>nala</i>, fordable.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		19	NANDIVELAGU.—14 m. A small village. <i>p.</i> Road as before. Country open and flat. Railway station (Kolakalur) is half a mile from this stage. Cross Nizampatam Canal, bridged, and Commamur Canal, bridged. Cross 3 <i>nalas</i> , unbridged, provided with causeways and fordable. <i>Camping ground</i> .—15 acres available E. of village. <i>Water</i> .—Unlimited supply after rains. <i>Fuel</i> .—Cut, 20 tons stacked. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain : paddy only available. Oxen 400; sheep and goats <i>nil</i> ; vegetables in small quantities.
		208 m. 5½ f.	
		20	AILUR.—12 m. 4 f. A small village 2½ f. (S18). from the Kistna R. Road fit for wheeled transport. Country open and flat. The Kistna, unbridged, which has to be crossed after leaving the last stage, is 1½ m. broad and a branch, ¾ m. The river and its branch fordable from February to May; in other seasons, 2 ferry boats will be available on the river and its branch, as well as on the Bank Canal, which is 100 ft. broad. Cross 5 <i>nalas</i> , bridged, and 7 <i>nalas</i> , unbridged, fordable. <i>Camping ground</i> .—Suitable land on W. side of village, but no fixed site. <i>Water</i> .—Unlimited supply; from wells and the Kistna.
		221 m. 1½ f.	<i>Fuel</i> .— <i>Grazing</i> .— } Nil.

ROUTE NO. 50.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Milit- tary.		
COLLECTOR OF KISTNA, MASULIPATAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		21	<i>Supplies.</i> —Grain for 50 men and 50 animals for 15 days. Other supplies <i>nil</i> . Pass Hammamapalam, Tumulum, Sinalum, Nandivilayu.
		235 m. 3½ f.	NIDUMOLU.—14 m. 2 f. A moderately large village. Road now under repair; difficult to pass in wet weather; fit for wheeled transport January to July. Country open and flat. Cross 8 watercourses, bridged; also 2 unbridged, but one is fordable and the other provided with a ferry boat. Route No. 52 joins here. <i>Camping ground.</i> —The compound of the travellers' bungalow will do for a small detachment to encamp. The country all round is under dry cultivation, but can be used in dry weather, April to June. <i>Water.</i> —From a tank and a well in its bed; also from channels; supply unlimited. <i>Fuel</i> —Notice required. 50 acres grazing. <i>Fodder.</i> —At 9 m; grass for 500 animals. <i>Supplies.</i> —Grain for 1,000 men; for animals, notice required. Oxen 500; sheep 1,000; goats 1,000; country vegetables obtainable. 3 m. Kistnapuram; 4 m, Narayanapuram (together 1,578); 5 m. Barlagudi (360); 6 m. Kuchipudi (846); 8½ m. Karakampadu (100); 6½ m. Pidapudi (691); 10½ m. Chinnamuthev (1,697); 12½ m. Avurupudi (661).
COLLECTOR OF KURNOOL, KURNOOL.		22	MASULIPATAM.—9 m. Metalled road, fit for b. p. t. r. motors. Country flat, open and cultivated. Cross 9 canals, bridged. <i>Vide</i> Route No. 49, stage No 24.
		244 m. 3½ f.	

ROUTE No. 50 (1).

FROM GADIVEMULA TO GADIDEMADUGU.

Cross several channels of the Kundar river, and the Tungabhadra river, unbridged. A fair-weather road only.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50 (1).
Civil.	Military		
COLLECTOR OF KURNOOL, KURNOOL.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	GADIVEMULA.
		1	GADIDEMADUGU.—19 m. 0 f.
		19 m. 0 f.	—p.

No. 50 (2).

FROM GADIVEMULA TO VEMGUTLA.

Cross several channels of the Kundar river, and the Tungabhadra river, unbridged. A fair-weather road only.

Direction.—North-West.

COLLECTOR OF KURNOOL, KURNOOL.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	GADIVEMULA.
		1	VEMGUTLA.—17 m. 0 f.
		17 m. 0 f.	

ROUTE No. 50 (3).

FROM NANDIKOTKUR TO MUSALIMADUGU.

Cross the Bhavanasi river, unbridged. A track impracticable for carts in the monsoon.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50 (3).
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	NANDIKOTKUR. — <i>p.</i>
		1	MUSALIMADUGU.—16 <i>m. o f.</i>
		16 <i>m. o f.</i>	

No. 50 (4).

FROM ATMAKUR TO MUSALIMADUGU.

Cross the Bhavanasi river, unbridged. A mere track.

Direction.—North-West.

COLLECTOR OF KURNOOL, KURNOOL.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	ATMAKUR— <i>p.</i>
		1	MUSALIMADUGU.—12 <i>m. o f.</i>
		12 <i>m. o f.</i>	

ROUTE No. 50 (5).

FROM PEDDA-ANANTAPURAM TO ATMAKUR.

A track difficult, but not impassable by carts in the rainy season.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 50 (5).
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	PEDDA-ANANTAPURAM.
		1	ATMAKUR.— <i>p.</i> —6 <i>m o f.</i>
		6 <i>m. 0 f.</i>	

No. 50 (6).

FROM VINUKONDA TO ELCHUR.

Good metalled road, 15 feet wide.

Direction.—West.

COLLECTOR OF GUNTUR, GUNTUR.	G. O. C., MADRAS DISTRICT, WELLINGTON.		VINUKONDA.—Madras and Southern Mah- <i>b. p t. r.</i> ratta Railway Sta- tion.
		1	ELCHUR.—12 <i>m. o f.</i>
		12 <i>m.</i>	

ROUTE No. 51.

FROM GOOTY TO HIRELUMBAL.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Total distance 56 m. 5 f.

5 Stages.

Epitome.—Direction—North. The road is metalled or gravelled and bridged, except over the Hindri rivers and a few *nalas*.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 51.
Civil.	Military.		
COLLECTOR OF ANANTAPUR, ANANTAPUR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	GOOTY.— <i>Vide</i> Main Route No. VI, stage No. 34. <i>p. t. r.</i>
COLLECTOR OF KURNOOL, KURNOOL.		1 9m. 0f.	<p>JONNAGIRI.—9 m.—A large village. Metalled road, fit for motors. Country undulating and stony, with scattered cultivation. At 8 miles cross a stream, bridged.</p> <p><i>Camping ground.</i>—On hard soil, W. of village; extensive.</p> <p><i>Water.</i>—From a well and tank, for 200 men and 200 animals.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—70 acres grazing at 2 m., for 400 animals.</p> <p><i>Supplies.</i>—Grain for 400 men and 400 animals; oxen 733; sheep 1,044; goats 683; vegetables nil. 6 m. Yerrigudi (1,563).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 51.
Civil.	Military.		
COLLECTOR OF KURNOOL, KURNOOL.	G. O. C., MADRAS DISTRICT, WELLINGTON.	2	<p>PATTIKONDA.—13 m. A large place; metal- <i>p. t.</i> (5,328). led road, fit for motors. Country open, undulating and cultivated. Cross 1 stream, bridged. <i>Camping ground.</i>—6 f. \times 6 f., E. of village. <i>Water.</i>—From 2 tanks, one of which dries up in May, and 2 wells; sufficient for 400 men and 400 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—100 acres grazing at 2 m., for 400 animals. <i>Supplies.</i>—Grain for 400 men and 400 animals for 1 week; oxen 583; sheep 300; goats 229; vegetables <i>nil</i>. 6 m. Tuggali (2,110).</p>
		22 m. 0. <i>f.</i>	
COLLECTOR OF BELLARY, BELLARY.	G. O. C., BANGALORE.	3	<p>ASPARI.—9 m. 4 <i>f.</i> Metalled road, fit for <i>p. t. r.</i> motors. <i>Vide</i> Route No. 26, stage 35. Country at first hilly; then open and culti- vated. Soil black. The river is 60 yds. wide, with steep banks and sandy bed. Cross the Hindri R. (bridge broken), fordable, except in flood. 3$\frac{1}{2}$ m. Chinnahulthy; 6$\frac{1}{2}$ m. Devanabanda.</p>
		31 m. 4 <i>f.</i>	
		4	
		45 m. 1 <i>f.</i>	<p>ADONI.—13 m. 5 <i>f.</i> <i>Vide</i> Route No. 48, stage <i>b. p. t. r.</i> No. 2. Metalled road, fit for motors. Cross 22 <i>nalas</i>, bridged, and 6 unbridged, fordable. Country open and cultivated. 2$\frac{1}{2}$ m. Shankabanda (683); 5$\frac{1}{2}$ m. Binnier (802); 8 m. Virupapuram (1,066); 9$\frac{1}{2}$ m. Gonabavi (425); 10$\frac{1}{2}$ m. Debbankul (474); 12$\frac{1}{2}$ m. Mandigiri (724).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 51.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	GENERAL OFFICER COMMANDING, TROOPS, SECUNDERABAD.	5	HIRE TUMBAL.—11 m. 6 f. A fair-sized village. Metalled road, fit for motors.
		56 m. 7 f.	Country cultivated, except Forest Reserve. Cross many <i>nul s</i> , bridged, and 3 streams, unbridged, fordable. <i>Camping ground</i> .—10 acres available after crops are cut. <i>Water</i> .—Good supply; from wells near. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Unlimited; in Forest Reserve 1 m. away. <i>Supplies</i> .—Grain for 200 men and 100 animals for 8 days. Oxen 20; sheep 100; goats 100; vegetables—brinjals and onions. 4½ m. Kaditota (418); 8½ m. Pandavugul (526). 9¼ m. Kupgal (747).

No. 51 (1).

FROM CHIPPIGIRI TO JUGGALI.

A made road as far as Nancherla, thence metalled and bridged; practicable at all seasons

Direction.—North-East.

COLLECTOR OF BELLARY BELLARY.	G. O. C., BANGALORE.		CHIPPIGIRI.— <i>p</i> .
		1	NANCHERLA.—4 m. 0 f. RAILWAY STATION. <i>r</i> .
		4 m. 0 f.	
		2	JUGGALI.—(8 m. from Jonnagiri).

ROUTE No. 51 (2).

FROM RACHAMARI TO HALUR.

Gravelled, but not bridged; practicable for carts at all seasons.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 51.
Civil.	Military.		
COLLECTOR OF BELLARY, BELLARY.	C. O. C., BANGALORE.		RACHAMARI.— (11 MILES FROM HIRE- TUMBAL.)
		1	HALUR.—By Kosgi Railway Station.
		15 m 4 f.	

ROUTE No. 52.

FROM MASULIPATAM TO KUMARABANDA.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Total distance 10 $\frac{1}{2}$ miles. *11 Stages.*

Epitome.—The road is metalled throughout ; practicable at all times. There is water communication between Masulipatam and Bezvada.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 52.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	..	MASULIPATAM.— <i>Vide</i> Route No. 49, stage b.p., t.r. No. 24.
		1 6 m. 4 f.	GUDUR.—6 m. 4 f. A large place. Metalled road, fit for motors. Country mostly paddy fields. <i>Camping ground.</i> —A large open place S. of village, suitable for camping. <i>Water.</i> —Good and abundant ; from wells. <i>Fuel.</i> — } <i>Nil.</i> <i>Fodder.</i> — } <i>Supplies.</i> — <i>Nil.</i> All must be brought, on requisition, from Masulipatam. At 2 m. Sultanagarum (1,249).
		2 17 m. 7 f.	PAMARU.—11 m. 3 f. A large village ; metal- led road, fit for motors. Country cul- tivated. Route No. 50 joins in this stage. <i>Camping ground.</i> — <i>Nil.</i>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 52.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATANM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Water</i>.—Abundant; from well and canals, for 10,000 men and 10,000 animals.</p> <p><i>Fuel</i>.—Nil.</p> <p><i>Fodder</i>.—200 acres grazing scattered within a radius of 2 m., for 1,000 animals.</p> <p><i>Supplies</i>.—Grain for 5,000 men and 5,000 animals for 1 month; oxen nil; sheep 100; goats 100; vegetables scarce.</p> <p>5 m. Aibomolo (2,619); 6½ m. Nemmikur (1,113); 8¼ m. Jughavaram (1,222).</p>
		3 26 m. 2 f.	<p>VUYYURU.—8 m. 3 f.—A large village; metalled road, fit for wheeled transport, but not for motors.</p> <p>Country cultivated and flat. Cross 5 <i>nalas</i> and the Polleni river, bridged, at ½ m. and 8 m.</p> <p><i>Camping ground</i>.—Nil.</p> <p><i>Water</i>.—Ample from pullam and wells, for 2,000 men and 1,300 animals.</p> <p><i>Fuel</i>.—Available.</p> <p><i>Fodder</i>.—100 acres grazing at ¼ m., for 500 animals.</p> <p><i>Supplies</i>.—Grain, for 100 men and 100 animals for 2 days; other supplies nil.</p> <p>1½ m. Nibumolo (<i>b.p.</i> 2) m. Kurumadalli (1,541); 4 m. Kanumur (1,695); 6 m. Montadh (1,208).</p>
		4 38 m. 2 f.	<p>PORANKI.—12 m. A large village. Metalled road, fit for motors; country cultivated.</p> <p><i>Camping ground</i>.—Nil.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 52.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water</i>.—Abundant ; from canal and wells, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.— } <i>Nil</i>.</p> <p><i>Fodder</i>.— }</p> <p><i>Supplies</i>.—Except 50 oxen, <i>nil</i>.</p> <p>At 7 m. Katlapad (4,321) ; 7½ m. Kurlu-maddala, a village sometimes used as a stage.</p>
		5	<p>BEZWADA.—6 m. 7 f. <i>Vide</i> Main Route <i>b. p. t. r.</i> No. V, stage No. 61.</p> <p>Metalled road, fit for motors ; country open and cultivated.</p> <p>At 1½ m. Kankipad (<i>b. p.</i>) ; 3½ m. Patamata (1,868) : 4½ m. Nagabrajapuram (1,099).</p>
		45 m. 1f.	
		6	<p>IBRAHIMPATNAM.—8 m. 5 f. A large (1,558). village ; metalled road, fit for motors.</p> <p>Country open and cultivated. Kondapalli railway station is 3 m. distant.</p> <p><i>Camping ground</i>.—Good and level ; N. and S. of village.</p> <p><i>Water</i>.—From a tank ½ m. away and, unlimited, from the Kistna R. 1 m. distant.</p> <p><i>Fuel</i>.—From Forest Reserve at 2 m.</p> <p><i>Fodder</i>.—Grazing in Forest Reserve.</p> <p><i>Supplies</i>.—100 oxen only.</p> <p>2½ m. Bhananipuram (458) ; 5½ m. Gollapudy (1,983) ; Ghutrapalli. (1,330).</p>
		53 m. 6f.	
		7	<p>KANCHINCHERLA.—9 m. A fairly <i>p.</i> (2,222). large village. Metalled road, fit for</p>
		62m. 6f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 52.
Civil.	Mili- tary.		
COLLECTOR OF KISTNA DISTRICT, MASULIPATAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>motors. Country open.</p> <p><i>Camping ground.</i>—Good and level; to the South 7 acres and 8 acres to North.</p> <p><i>Water.</i>—For drinking, from well; for other purposes, from a tank—for 200 men and 50 animals.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Grazing.</i>—60 acres at 1 m., for 300 animals.</p> <p><i>Supplies.</i>—Oxen and vegetables <i>nil</i>; sheep and goats 50 each. At 5 m. Parelela.</p>
		8	<p>NANDICAMA.—9 m. 5 f. A large village.</p>
		72 m. 3 f.	<p><i>b. p. t.</i> (3,978). Road as before.</p> <p>Country cultivat- ed.</p> <p>Headquarters of a tahsildar.</p> <p>Cross the Kusara R. unbridged, but ford- able, except during floods, when ferry boats are available.</p> <p><i>Camping ground.</i>—High and level, about 5 furlongs before the village; 13 acres W. of travellers' bungalow.</p> <p><i>Water.</i>—Ample; from wells and the Kusara R. $\frac{1}{2}$ m. E., for 200 men and 200 animals.</p> <p><i>Fuel.</i>—1 cartload.</p> <p><i>Fodder.</i>—400 acres grazing within 1 m. for 200 animals.</p> <p><i>Supplies.</i>—Grain for 400 men and 200 animals for 2 days; oxen and vegetables <i>nil</i>; sheep and goats 25 each.</p> <p>5$\frac{1}{2}$ m. Achanaram (305); 6$\frac{1}{2}$ m. Ambara- pet (309).</p>

ROUTE No. 52.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF KISTNA DISTRICT, MASULIPATAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		9	NAWABPETA.—4 m. 6 f. A large village; (1,529). metalled road, fit for motors; country cultivated.
		77 m. 1 f.	<i>Camping ground.</i> —Good and level; in a tamarind grove to east of village. <i>Water.</i> —Scarce; from a tank and wells, for 50 men and 50 animals only. <i>Fuel.</i> —Nil. <i>Grazing.</i> —25 acres at 1 m. for 50 animals. <i>Supplies.</i> —Grain for 50 men and 50 animals for 2 days; oxen and vegetables nil; sheep and goats 10 each.
		10	SHER MUHAMMADPETA.—12 m. A b. (1,018). fair-sized village. Metalled road, fit for motors. Country, dry cultivation.
		89 m. 1 f.	<i>Camping ground.</i> —9·4 acres $\frac{1}{4}$ m. distant. <i>Water.</i> —For 1,000 men and 2,300 animals, from a tank close by and from wells in the village. <i>Fuel.</i> —From Forest Reserve at 4 m. <i>Fodder.</i> —200 acres grazing at 1 m., for 200 animals. <i>Supplies.</i> —Grain as required, on requisition; oxen 106; sheep 608; goats 1,044; vegetables procurable. At 4 m. Gowranamu (1,132); 8 m. Chilla (604).
		11	KUMARABANDA.—12 m. A large and b. (756). populous village.
		101 m. 1 f	Metalled road, fit for motors. Cultivated country. Cross the Palern R., unbridged, but fordable, except in flood.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 52.
Civil.	Military.		
			<p><i>Camping ground.</i>—S.-E. of the bungalow.</p> <p><i>Water.</i>—From a tank. S.-W. of the camp, for 750 men and 750 animals.</p> <p><i>Fuel.</i>— } <i>Nil.</i></p> <p><i>Grazing.</i>— }</p> <p><i>Supplies.</i>—Grain, on requisition; oxen 141; sheep 545; goats 361; vegetables <i>nil</i>. 2 m. Anamanulapalli (572); 4 m. Nullabade-gudem (604); 6 m. Doragunta; 11 m. Kadada.</p>

No. 52 (1).

FROM PAMARU TO GUDIVADA.

Epitome.—Cross a small drain, unbridged. Road metalled and bridged, practicable at all seasons.

Direction.—North.

COLLECTOR OF KISEN, MASULIPATAM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		PAMARU.— <i>b. p.</i>
		1	GUDIVADA.—9 m. 1 f. <i>Vide</i> Route No. 54, <i>b. p. t.</i> Stage No. 2.
		9 m. 1 f.	

ROUTE No. 52 (2).

FROM KANKIPAD TO GANAVARAM.

Epitome.—Cross the Budameru Ryves Canal, unbridged ; road partly metalled, partly sandy, always passable.

Direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 52 (2).	
Civil.	Military.			
COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	KANKIPAD.— <i>b.p.</i>	Between Poranki and Vuyyuru.
		8 m. 5f.	GANNAVARAM.—8 M. 5 f. <i>b. p. r.</i>	<i>Vide</i> Main Route No. V, stage No. 62. Railway station.

No. 52 (3).

FROM IBRAHIMPATNAM TO MAILAVARAM.

Epitome.—Road metalled and passable throughout the year.

Direction.—North-east.

COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	IBRAHIMPATNAM.	
		15 m. 5f.	MAILAVARAM.—15 m. 5 f.	Cross several small streams there is no road beyond Mailavaram, but there is a fair-weather track up to Tiruvuru, 27 m. 4 f.

ROUTE No. 52 (4).

FROM JAGGAYAPET TO BONAKALLU.

Epitome.—Road metalled and always passable.*Direction.*—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 52 (4).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAN.	O. C., MADRAS DISTRICT, WELLINGTON.		JAGGAYAPET.— <i>p. t.</i>
		1	CHILAKALURPET.—2 m. 7 f. Cross three small streams.
		2	BONAKALLU.—10 m. 6 f. Cross the Muniyar R. and several small streams.

No. 52 (5).

FROM MUKTYALA TO SHER MUHAMMADPETA.

Epitome.—Road metalled and always passable, except at river Paleru, when in flood.*Direction.*—North-East.

COLLECTOR OF KISTNA, MASULIPATAN.	G. O. C., MADRAS DISTRICT, WELLINGTON.		MUKTYALA.—(On the Kistna.) <i>p.</i>
		1	SHER MUHAMMADPETA.—8 m. 6 f. Cross via JAGGA-YAPET—b. Paleru R. and several small streams, unbridged.
		8 m. 6 f.	

ROUTE NO. 53.

FROM GUNTUR TO PIDUGURALLA.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Total distance 39½ miles.

4 Stages.

Epitome.—The road is metalled, in good repair and partly bridged.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 53.
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR.	G. O. C., MADRAS DISTRICT WELLINGTON.		GUNTUR.— <i>Vide</i> Route No. 5, stage No. 19. <i>b.p.t.</i> Road metalled, with good avenues. Country open and flat.
		1	MADIKONDUR.—10 m. 4 f. A large village. (2,724). Road metalled, in good repair and fit for all transport. Country open, flat and cultivated. Cross 16 <i>nalas</i> , 9 bridged and 7 unbridged, provided with causeways and fordable. <i>Camping ground.</i> —Nil. <i>Water.</i> —From 2 wells, for 2,500 men and 2,000 animals. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing for 2,000 animals. <i>Supplies.</i> —Grain for 2,500 men and 2,000 animals. At 3 m. Nallapadu.
		2	SATTENAPALLE.—11 m. 2 f. A town. Road <i>b.p.r.</i> (3,966). and country as before; soil black cotton. Headquarters of a tahsildar.
		10 m. 4 f.	
		21 m. 6 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 53.
Civil.	Military.		
COLLECTOR OF GUNTUR, GUNTUR. G. O. C., MADRAS DISTRICT, WELLINGTON.		3	<p>Cross 8 <i>nalas</i>, unbridged, but provided with causeways and fordable.</p> <p><i>Water</i>.—Good and healthy from a tank and 160 wells, for 4,000 men and 2,000 animals.</p> <p><i>Fuel</i>.—<i>Nil</i>.</p> <p><i>Fodder</i>.—698 acres grazing near town.</p> <p><i>Supplies</i>.—Grain for 4,000 men and 2,000 animals; oxen 300; sheep 50; goats 150; vegetables <i>nil</i>.</p> <p>4½ m. Kordapandi; 5½ m. Kantipadi.</p>
		31 m. 1f.	<p>RAZUPALLEM.—9 m. 3 f. A small village. (973). Road and country as before. Country cultivated all round. Cross 3 large <i>nalas</i>, bridged, and 10 <i>nalas</i>, unbridged, but provided with causeways and fordable.</p> <p><i>Camping ground</i>.—<i>Nil</i>.</p> <p><i>Water</i>.—From 1 tank and 11 wells, for 1,000 men and 1,000 animals.</p> <p><i>Fuel</i>.—From Forest Reserve.</p> <p><i>Fodder</i>.—290 acres grazing all round village.</p> <p><i>Supplies</i>.—Grain for 1,000 men and 1,000 animals; oxen 100; sheep 450; goats 250; vegetables <i>nil</i>.</p> <p>At 2 m. Yennadori; 4 m. Dholijalla; 7 m. Reddigudam.</p>
		4	<p>PIDAGURALA.—8 m. <i>Vide</i> Main Route No. III, stage No. 23. Road as before.</p> <p>Country hilly, with rock jungle. Cross 1 <i>nala</i>, bridged, fordable, and 8 <i>nalas</i>, unbridged, fordable.</p> <p>At 4½ m. Kubadapam.</p>
		39 m. 1f.	

ROUTE NO. 54.

FROM MASULIPATAM TO CHINTALAPUDI.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

76½ miles.

7 stages.

Epitome.—Direction—North-North-West. The road as far as Chintalapudi is metalled, except from a few miles before Kavitam up to Gudivada and between Perikidu and Ellore, where it is earthen.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 54.
Civil.	Military.		
COLLECTOR OF KISTNA DISTRICT, MASULIPATAM.	G. O. C., MADRAS DISTRICT, WELLINGTON.		MASULIPATAM.— <i>Vide</i> Route No. 49, stage <i>b.p.t.r.</i> No. 24.
		1	KAVITAM.—12 m. 7 f. A large village. Road metalled and fit for motors;
		12 m. 7 f.	country cultivated. <i>Camping ground.</i> —Nil. <i>Water.</i> —Abundant; from wells, tanks and canals, for 2,000 men and 2,000 animals; except from March to May, when canals are closed. <i>Fuel.</i> —Nil. <i>Fodder.</i> —50 acres within 2 m., grazing for 250 animals. <i>Supplies.</i> —Grain for 4,000 men and 1,000 animals for 1 week; oxen <i>nil</i> ; sheep 70; goats 10; vegetables scarce. Pass Padana (453).
		2	GUDIVADA.—9 m. 3 f. A large village. Me- talled road, fit for motors. Country cultivated. Headquarters of a tahsildar. At 1 m. cross Gudivari R., bridged, and at 9 m. Pelvary channel, bridged.
		22 m 2f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 54.
Civil.	Military.		
COLLECTOR OF KISTNA DISTRICT, MASULIPATTAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping ground.</i>—In compound of travellers bungalow 200 yds from railway station, shady.</p> <p><i>Water.</i>—Drinking water from railway station. Tank for animals and washing in village 200 yds. from camp.</p> <p><i>Fuel.</i>—100 tons.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 5,000 men and 1,000 animals for 1 month; oxen 4; sheep 25; goats 25; vegetables scarce. At 8 m. Gundlavaram (2,413). 50 carts.</p>
		3	<p>PERIKIDU.—13 m. 4 f. <i>Vide</i> Main Route No. V, stage No. 63.</p> <p>Road metalled, in fair repair and fit for motors throughout. Country open and flat. Six fords between Ellore and Nusvid. Four fords between Nusvid and Gudivada, average depth 1 foot. Road fair.</p>
		35 m. 6f.	
		4	<p>ELLORE.—11 m. 1 f. <i>Vide</i> Main Route No. V; <i>b.p.t.r.</i> stage No. 64. Road fit for motors. Cross the Tumuleru R., unbridged, but fordable. Road is impassable during rains.</p>
		46 m. 7f.	
		5	<p>VIJAYARAYL.—9 m. 4 f. A small village. <i>p.</i> (756). Metalled road, fit for motors, but floods may cause delay. Country cultivated for first 7 m. Cross the Tumukru R., unbridged; fordable.</p> <p><i>Camping ground.</i>—In a private mango grove N. of village.</p>
		56 m. 3 ^s .	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 54.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Water.</i>—Unlimited; from river. <i>Fuel.</i>—Scarce. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Grain and vegetables <i>nil</i>; oxen 147; sheep 370; goats 126. 1 m. Tangellamudi (1,908); 6½ m. Janampete.</p>
		6 63 m. 3f.	<p>DARMAJIGUEDEM.—7 m. A metalled road, fit for motors; country jungle, with dry cultivation. <i>Camping ground.</i>—10 acres, near travellers' bungalow, N. of village. <i>Water.</i>—Plentiful. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing <i>nil</i>. <i>Supplies.</i>—Grain and vegetables <i>nil</i>; oxen 546; sheep 680; goats 637. 2 m. Wadigalli (544); 4 m. Ramachandrapuram. 5 m. Bapurajuguddam.</p>
		7 76 m. 3f.	<p>CHINTALAPUDI.—13 m. A large village. b.p (4,026). Metalled road, fit for motors <i>Camping ground.</i>—5 acres, in mango grove N.-E. of village. <i>Water.</i>—From a well, scarce; and from a tank, for 1,300 men and 600 animals, if full. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing plentiful at 4 m. <i>Supplies.</i>—Grain for 1,000 men and 500 animals for 1 week; oxen 1,153; sheep 1,113; goats 679; vegetables <i>nil</i>. 1 m. Chendrannapalam (166); 2½ m. Mathamgodem (490); 4½ m. Lingapalem (49); 9½ m. Velagalapathi.</p>

ROUTE No. 54 (1).

FROM CHINTALAPUDI TO RAGAVAPUR.

Epitome.—A track across black cotton soil, difficult in the rains.

Direction.—West by North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 54 (1).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C. MADRAS DISTRICT G. O. C. WELLINGTON.		CHINTALAPUDI.— <i>p.</i>
		1	RAGAVAPUR.—6 m. 0 f.—
		6 m. 0 f.	

ROUTE NO. 55.

FROM MASULIPATAM TO JEYPORE.

Authority and date.—General Officer Commanding, Madras District, January 1920.

296½ miles.

28 stages.

Epitome.—The sandy ridge along which this road passes as far as Narsapur is practicable for carts throughout the year, but, at times, there is great difficulty in crossing the swamps and a backwater at Peddapatnam, where there is only a palmyra raft ferry. From Narsapur to Kottapalle, with the exception of the piece from Narsapur to Chinchinadu, which is an earthen, river embankment road, it is metalled, but unbridged, and quite impracticable for carts during the rains, and is not recommended at any time. From Kottapalle to Cocanada, the road is metalled and bridged, and is practicable for carts at all seasons. During the rains, troops should move from Masulipatam to Cocanada by sea or canal, and, in the dry season, the best route is that by Rajahmundry and Samalkot, with an alternative route by Gudivada, Ellore and Rajahmundry. Thence the road is metalled and bridged to the 14th mile beyond Tuni; it then leaves the main trunk road, and is metalled and, for the most part, bridged. Fever is prevalent throughout the year beyond Madugula.

Direction.—North-East and North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	GENERAL OFFICER COMMAND- ING, MADRAS DISTRICT WELLINGTON.		MASULIPATAM.— <i>Vide</i> Route No. 49, final <i>b p. t.r.</i> stage.
		1	PEDDAPATNAM.—12 m. A very small (382). village on the sea coast. The road is
		12 m. 0 f.	a made one for the first 5 m. only; after that, it is a natural track, sandy and always passable, though unfit for motors or wheeled transport. Pass a backwater, unbridged; width 90 yds.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			depth, at high water, 12 ft., and, at low water, 9 ft. It is provided with a ferry boat. Country cultivated. <i>Camping ground.</i> —Suitable open ground on both sides of village, close to road. <i>Water.</i> —From wells, but scarce in summer. <i>Fuel.</i> — <i>Fodder.</i> — } Nil. <i>Supplies.</i> — }
		2	PEDAGOLLAPALLEM.—12 m. A small b. p. (1517). village on the sea coast, with two
		24 m. 0 f.	shops. The track is sandy, but hard and passable, though unfit for motors or wheeled transport. <i>Camping ground.</i> —Open ground S of village. about 3 furlongs from bungalow <i>Water.</i> —Abundant; from wells. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —Scanty grazing. <i>Supplies.</i> —Not procurable. Pass Intini (239).
		3	MOGALTUR.—13 m. A large place. Residence of the tahsildar. Travellers are accommodated in
		37 m. 0 f.	a Salt rest-house. Cross 3 rivers, unbridged. The first is deep and 428 yds. wide; the second, 133 yds. wide; the third, 276 yds. wide; and there are 2 boats on each. The road is sandy, but muddy in some places, fit for country carts only. Route No. 59 joins here. A local fund bungalow. Country open and cultivated.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Camping ground.</i>—100 acres S. of and 500 acres near village.</p> <p><i>Water.</i>—Unlimited supply; from wells and a canal.</p> <p><i>Fuel.</i>—200 headloads.</p> <p><i>Fodder.</i>—Grazing <i>nil</i>.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 100 animals for 10 days; oxen 200; sheep 400; goats 100; vegetables 50 maunds per day.</p> <p>At 6 m. Chinagallepalem (2,027); 8 m. Kalipatriam (1,612).</p>
		4	<p>NARSAPUR.—6 m. 5 f. Metalled road, fit <i>b. p. t.</i> for motors. Country open and cultivated. There is a local fund bungalow here.</p> <p><i>Camping ground.</i>—200 acres W. and 550 acres near Nursapur. A small town (9,795).</p> <p><i>Water.</i>—Unlimited; from wells and a canal.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing <i>nil</i>.</p> <p><i>Supplies.</i>—Grain for 1,000 men for 30 days and for 1,000 animals for 10 days; oxen 100; vegetables 100 maunds daily; sheep and goats <i>nil</i>.</p> <p>At 2 m. Tutturampuram (1,860) and the Nursapur canal, bridged; 7 m. Rastamuada (6,152).</p>
		43 m. 5 f.	
COLLECTOR OF GODAVARI, COCANADA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	5	<p>NAGARAM.—14 m. Gravelled road for first <i>p.</i> (2,400). 6 m.; thence metal- led; fit for motors.</p> <p>Country cultivated. The bed of the Godavari river is 1 m. wide; it is affected by the tides; and, when there is a high wind,</p>
		57 m. 5 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.			<p>it is very rough ; 6 boats are always available. Also cross the Vasista, a branch of the Godavari, at 4 m., where it is $\frac{1}{2}$ m. wide ; 3 boats available. The canal is bridged.</p> <p><i>Camping ground.</i>—Anywhere round the village.</p> <p><i>Water.</i>—From wells and canal.</p> <p><i>Fuel.</i>— } <i>Fodder.</i>— } <i>Nil.</i> <i>Supplies.</i>— }</p>
		6	<p>AMALAPURAM.—10 m. The road is metal- <i>b. p. t.</i> led, except near the ferry, and fit for motors. Cross the Vianakyem, a branch of the Godavari river, at 4 m. It is unbridged but 2 large boats are available ; the river bed is $\frac{1}{4}$ m. broad.</p> <p><i>Camping ground.</i>—Available. One M. East of Railway Station plenty of space.</p> <p><i>Water.</i>—Canal 100 yds. from camp. No drink- ing water.</p> <p><i>Fuel.</i>—600 headloads.</p> <p><i>Fodder.</i>—Grazing <i>nil.</i></p> <p><i>Supplies.</i>—Grain for 6,000 men and 4 animals for 1 day ; oxen, sheep and goats <i>nil</i> ; vege- tables 100 maunds.</p> <p>At 1 m. Mamidikuduru (2,210) ; 3 m. Paserlahudi (3,453) ; 5 m. Bidasakuru (3,730) ; 6 m. Perur (6,936).</p>
		67m. 5f.	
		7	<p>KOTIPALLI.—8 m. 4f. Metalled road for 5 m., <i>b.p.</i> (3,000). fit for motors.</p> <p>Country open and cultivated with rice. It is very swampy and</p>
		76m. 1f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			would make movement over it for any arm very difficult. Villages usually surrounded by scrub and thick palm tree plantations affording excellent cover for rebel snipers. A Local Fund bungalow.
			Cross the Godavari R., 2½ m. wide, sandy bottom. It is not fordable in high flood, but boats are available.
			Camping ground.— <i>Nil</i> .
			Water.—Unlimited, from canal and tanks.
			Fuel.— } <i>Nil</i> .
			Fodder.— }
			Supplies.—Grain only, for 100 men and 25 animals for 11 days.
			3 m. Vilasa (1,800); 5 m. Murteswaram.
		8	
		82 m.	DRAKSHARAMAM.—6 m. 4 f. Gravelled
		5 f.	p. (3,900). road, fit for motors ; country as before.
			Camping ground.— <i>Nil</i> .
			Water.—Unlimited.
			Fuel.— <i>Nil</i> .
			Fodder.— <i>Nil</i> .
			Supplies.—For 1,000 men and 1,000 animals for 1 day; oxen, sheep and goats <i>nil</i> ; vegetables on market-day only.
			3 m. Kundur (1,600); 15 m. Venketayapalam (2,000).
		9	
		94 m. 5 f.	GOLLAPALEM.—9 m. Metalled road, fit for all wheeled traffic and sufficiently wide to admit of passage of infantry and cavalry

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 55.

COLLECTOR OF GODAVARI, COCANADA.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

10

102 m.

5 f.

in half section, and carts. In moderately good repair. Material available for upkeep for a short time beside the road. Bridges not in good repair; that at Goray Poodee unsafe for more than 2 tons. Country as before. Black cotton soil.

Camping ground.—12 acres, shady in parts.

Water.—Wells, 8 feet wide and 15 feet deep. Horse trough near well. Canal at end of camping ground.

Fuel.—
Fodder.— } Nil.
Supplies.— }

3 m. Undur (1,000). Cross irrigation canal, 90 ft., bridged; 8 m. Viziarayadupalem.

COCANADA.—8 m. Road and country as before. Public Works Department rest-house. Route No. 56 joins here.

Camping ground.— $\frac{3}{4}$ miles sq. 3 furlong from Town Station.

Water.—From canal and 3 taps, for 50,000 men and 10,000 animals. No shade. Town supply laid on to camp.

Fuel.—About 50,000 lbs. stacked.

Fodder.—Nil.

Supplies.—Grain for 20,000 men and 1,000 animals for 10 days; meat 100 sheep or goats;

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	

ROUTE NO. 55.

COLLECTOR OF GODAVARI, COCANADA.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT. WELLINGTON.

11

116 m.
5 f.

vegetables 100 maunds; 20 bullocks; 100 carts.

$\frac{1}{2}$ m. Gorripudi (1,800) and cross channel, 76 ft., bridged; 3 m. Penugudum (1,700) and cross salt creek, 300 ft., bridged.

Good field firing range $2\frac{1}{2}$ miles from camp, originally a racecourse 800 yds. of flat dry sandy, ground, 150 yds. wide. Beyond 100 yds. of marshy ground and then the sea. Easy to clear.

GOLLAPROLU.—14 m. A large village. Due (*via* PITHAPURAM) to the construction b. p. t. (6,914). of a road from Cocanada to Pethapuram; this route is better both for artillery and cavalry; metalled and fit for motors. Cross 3 streams, bridged. Country, all cultivation.

Camping ground.—8 acres, W. of village.

Water.—From wells and tank, for 2,000 men and 200 animals for 1 week.

Fuel.—Scarce.

Fodder.—Grazing scarce.

Supplies.—Grain for 2,000 men for 5 days, with 15 days' notice; oxen 800; sheep *nil*; goats 100; vegetables (onions) for 2,000 men, for 10 days.

$4\frac{1}{2}$ m. Turinapuram (1,329); 6 m. Venkatapuram (2,063); 8 m. Chitrada (1,826); Pithapuram (15,316); Agrataram (98).

AUTHORITIES-		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	12	ARIMPUDI OR—14 m. <i>Vide</i> Main Route No. ANNANVARM V, stage No. 73.
		130 m. 5 f.	<i>b. p.</i> Metalled road, fit for motors. Country open and cultivated. There is a railway station near Kattapally. 3 m. Cheebolu (3,947); 6 m. Kattigundy (1,624). 9 m. Tirumalipetta (2,326).
		13	TUNI.—11 m. 4 f. <i>Vide</i> Main Route No. V, stage No. 74. Road <i>b. p. t. r.</i> as before. Country partly cultivated and partly rocky jungle.
		142 m. 1 f.	2 m. Thetgunta (3,500). Cross a <i>nala</i> , 10 ft., bridged.
		14	NAKKAPILLI.—12 m. 1 f. <i>Vide</i> Main Route No. V, stage No. 75.
COLLECTOR OF VIZAGAPATAM, WALTAE,		154 m. 2 f.	<i>b. p.</i>
		15	URATLA.—14 m. A town. Metalled road as before. Country as before, with a few small hills. Cross the Kandara river, bridged, and the Varaba river, which is occasionally impassable in the rainy season.
		168 m. 2 f.	<i>Camping ground</i> .—80,000 sq. yds., when crops are cut. <i>Water</i> .—From river, for 1,000 men and 1,000 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 500 men and 500 animals for 10 days: oxen 25; sheep 50; goats 50; vegetables in small quantities.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		16	At 5 m. Minagundalar (1,260); 9 m. Pandur (976); 10 m. Gotivara (1,084); 13 m. Galasapatram 1119).
		177 m. 2 f.	NARSAPATNAM.—9 m. A town, with a bazar. <i>p.t.</i> (6,556). Road and country as before. Route No. 63 crosses and No. 64 joins here. Cross the Varaba river, 30 yds., wide, at 3 m. under construction bridge (should now be completed). <i>Camping ground.</i> —80,000 sq. yds., N. of town. <i>Water.</i> —From wells, tanks and river, for 1,500 men and 1,500 animals. <i>Fuel.</i> —Cut; 50 tons stocked. <i>Fodder.</i> —Nil. <i>Supplies</i> —Grain for 1,000 men and 1,000 animals for 15 days; oxen 10; sheep 50; goats 50; vegetables in small quantities. 2 m. Jallur (762); 3 m. Vendapalli (1,069); 8 m. Peddaboddepalli (2,600).
		17 193 m 2 f.	MEDIVADA.—16 m. Road as before, but unfit (2,740). for motors. Country rocky, open and cultivated. <i>Camping ground.</i> —Fairly good; W. of village. <i>Water.</i> —From wells; scarce in hot weather. <i>Fuel.</i> — } <i>Nil.</i> <i>Fodder.</i> — } <i>Supplies.</i> — } 1½ m. Boddapalli (2,600); 4 m. Chettupilli (1,978); 7 m. Renugunta (2,439); 9 m. Varaba river, 54 yds. wide, usually fordable. 10 m. Kottekda (6,913); 11 m. Dondapudi (1,493).

ROUTE NO. 55.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		18	MADUGULA.—13 m. First 7 m. of road unmetalled, but fit for transport; thence metalled and fit for motors. Country cultivated.
		206 m. 2 f.	This place is 10 m. from Chodavaram, a large village on Main Route No. 5 (31), 11 m. from Anakapalle. <i>Camping ground.</i> —20 acres, 1 m. S. of town. <i>Water.</i> —Scarce; from <i>nala</i> , tank and wells; enough for 200 men and 50 animals only. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —4 acres grazing 1 m. from town. <i>Supplies.</i> —Grain for 200 men and 50 animals only; oxen 50; sheep 15; goats 15; vegetables in fair quantities. $\frac{1}{8}$ m. Gakinikarni (649); $1\frac{1}{2}$ m. Ravinamatam (764); $3\frac{3}{4}$ m. Pottidehesapalem (850); 5 m. Lapudi (1,313); $7\frac{1}{2}$ m. <i>nala</i> , 77 yds. wide, fordable, except in floods; $7\frac{1}{2}$ m. Vaddadi (4,957); $8\frac{7}{8}$ m. Mukundapuram (409); 11 m. Ketpadi (1,389).
		19	METTA.—12 m. A hamlet. Track unfit for motors. Country open, rocky and cultivated. Ascend a hill, which begins at 6 m. and is fairly easy.
		218 m. 2 f.	<i>Camping ground.</i> —3 acres, N.-W. of village. <i>Water.</i> —No details. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing for 200 animals around village. <i>Supplies.</i> —Very scarce. 2 m. <i>nala</i> , 50 yds. wide, fordable, except in

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			floods; 2½ m. Koduru; 5 m. Thatipanthi; 6 m. Garikibanda.
		20	MINAMALUR.—6 m. A very small village. Tract fit for bullock carts only. Country
		224 m. 2 f.	rocky. A very steep and severe hill in this stage. <i>Camping ground</i> .—10 acres, N.-W. of village. <i>Water</i> .—From stream, for 300 men and 100 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 400 animals 1 mile from village. <i>Supplies</i> .—Nil.
		21	PADEROO.—5 m. A small village. Fair- p. (442). weather track only.
		248 m. 2 f.	Country jungle and cultivation alternately. A police station here. Route No. 65 joins in this stage. <i>Camping ground</i> .—5 acres, N.-E. of village. <i>Water</i> .—From springs, for 500 men and 500 animals. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—1 sq. m. ½ m. grazing from village. <i>Supplies</i> .—Nil. 3 m. Kindangi (144); 4 m. Serriballi (32); 4½ m. Sundrupul (60).
		22	UGAMPETA.—6 m. A very small village. (100). Track as before
		235 m. 2 f.	Country wet cultivation.

AUTHORITIES.		No. of stage and total distances.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping ground.</i>—5 acres, S.-W. of village. <i>Water.</i>—From a tank and <i>nala</i>, for 500 men and 500 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing for 1,000 animals around village. <i>Supplies.</i>—<i>Nil</i>. 1½ m. Balarisurgi (72); 3½ m. Baranamaguda (56).</p>
		23	DUGGAM.—7 m. A hamlet. Track as before. Country alternate jungle and
		242 m. 2 f.	<p>cultivation. Cross the Digudugedda river, unbridged, at 2 m., where it is 100 ft. wide and fordable. <i>Camping ground.</i>—6 acres, W. of hamlet, available. <i>Water.</i>—Good, but scarce in hot season. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing for 1,000 animals near. <i>Supplies.</i>—<i>Nil</i>. 4 m. Vukuruba (106).</p>
		24	WONDRAGUDDA.—6 m. Track as before.
		248 m. 2 f.	<p>p. (360). Country jungly. Cross 4 <i>nalas</i>, un-bridged, fordable. <i>Camping ground.</i>—10 acres, S. of village. <i>Water.</i>—From a <i>nala</i>, for 500 men and 500 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing for 1,000 animals within 1 m. <i>Supplies.</i>—<i>Nil</i>.</p>

ROUTE NO. 55.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.		25	PADVA.—8 m. Track as before. Country open and cultivated. Route No. 66 joins here.
		256 m. 2 f.	<i>Camping ground.</i> —6 acres, S.-W. of village; good high ground, in the open. <i>Water.</i> —Unlimited; from <i>nalas</i> . <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —2 sq. m. grazing 4 m. E. of village. <i>Supplies.</i> — <i>Nil</i> . At 3 m. Bakaput; 4 m. Sunkaripet; 6 m. Kullasingi; 7 m. Rantha; 8 m. a <i>nala</i> , 120 ft., fordable, ferry maintained.
		26	SOGURU.—11 m. A hamlet. Cart track, in good repair, unfit for motors. Country as before.
		267 m. 2 f.	<i>Camping ground.</i> —In the open. Enough space for 1 battalion N. of hamlet. <i>Water.</i> —Scarce in hot season. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> — <i>Nil</i> . <i>Supplies.</i> — <i>Nil</i> . At 2 m. Dorasubablu (257); 6 m. Balada (150); 7 m. Tavinti (219); 8 m. Bejji (160); 10 m. Misiri (44).
		27	DADI.—10 m. Track as before. Country cultivated and open, with wooded jungle in places. A police station here. Cross a river, unbridged.
		277 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIL. GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.			<p><i>Camping ground.</i>—Nil. <i>Water.</i>—Scarce. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>— } Nil. <i>Supplies.</i>— } 2 m. Bodapada (187); 4 m. Thusabad (144); 7 m. Lambatapet (130).</p>
		28	<p>JEYPORE.—19 m.—Mud road, unfit for motors. Country as before. A large place and headquarters of a zamindar. Cross the Kalab R., unbridged; 2 boats carrying 6 men available. Routes 57, 62 and 70 join here. Cross 3 <i>nilas</i> fordable. <i>Camping ground.</i>—250,000 sq. yds., N. of town. <i>Water.</i>—For 4,000 men and 2,000 animals. <i>Fuel.</i>—Plentiful. <i>Fodder.</i>—300 acres grazing within 3 m. <i>Supplies.</i>—Grain for 4,000 men for 1 month and 400 animals for 15 days; oxen 20; sheep 10; goats 40; vegetables in small quantities. At 1 m. Chatra (50); 4 m. Gottanapet (83); 5 m. Gunja (107); 11 m. Parjaguda (54); 10 m. Doraguda (33); 11 m. Kolab R., 200, fordable, except in rains. 12 m. Doala Patt (55); 14 m. Dongur Chinchu (206); 16 m. Feridipatti (50); 15 m. Jagipatti (67), 17 m. Sotti R., wooden bridge; 18 m. Bamani (134).</p>
		296 m. 2 f.	

ROUTE No. 55 (1).

FROM BANTUMILLI TO KANKIPAD.

Epitome.—Unmetalled and partly bridged; impassable in wet weather.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55 (1).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATNAM. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			BANTUMILLI.— <i>p.</i>
		1 10 m. 4f.	VADALI.—10 m. 4f. Cross the Tummid <i>p.</i> drain and small unbridged. drainage courses,
		2 20 m. 7f.	GUDIVADA.—10 m. 3 f. <i>Vide</i> Route No. 54, <i>b.p.t.</i> stage No. 2.
		3 39 m. 4f.	KANKIPAD.—18 m. 5 f. On Route No. 52. <i>b.p.</i>

ROUTE No. 55 (2).

FROM VADALI TO KAIKALUR.

Epitome.—Cross two irrigation channels, unbridged. Unmetalled, but partly bridged; impracticable during the rains.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55 (2).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C. MADRAS DISTRICT, WELLINGTON.		VADALI.—On Route No. 55 (1).
		1	KAIKALUR.—12 m. 3 f.
		12 m. 3 f.	<i>p.t.</i>

No. 55 (3).

FROM AMALAPURAM TO PEDDA GANARAM.

Epitome.—Bridged and partially metalled, practicable at all seasons.

Direction.—West.

COLLECTOR OF GODAVARI, OCCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.		AMALAPURAM.—
		1	<i>b.p.t.</i>
		8 m. 6 f.	PEDDA GANARAM.—8 m. 6 f.

ROUTE No. 55 (4).

FROM AMALAPURAM TO COCANADA.

Epitome.—Cross two large branches of the Godavari and a creek at Annampalli, unbridged. Road partly bridged, but not metalled; impracticable in the rainy season.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55 (4).
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	AMALAPURAM.— <i>b.p.t.</i>
		1	YEDDALANKA.—16 m. 0 f.
		16 m. 0 f.	
		2	COCANADA.—16 m. 0 f. <i>b.p.t.r.</i>
		32 m. 0 f.	

ROUTE No. 55 (5).

FROM DRAKSHARAMAM TO METAPAD.

Epitome.—Bridged and gravelled, practicable at all seasons.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 55 (5).
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	DRAKSHARAMAM.— <i>p.</i>
		1	THAPISWARAM.—12 m. 0 f.
		12 m. 0 f.	
		2	METAPAD.—3 m. 0 f.—Near Darapudi, a station on the M. and S.-M. Railway.
		15 m. 0 f.	

No. 55 (6).

FROM DRAKSHARAMAM TO BICCAVOL.

Epitome.—Bridged and gravelled; practicable at all seasons.

Direction.—North.

COLLECTOR OF GODAVARI, COCANADA.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	DRAKSHARAMAM.— <i>p.</i>
		1	BICCAVOL.—15 m. 0 f. A station on the M. and S.-M. Railway.
		15 m. 0 f.	<i>r.</i>

ROUTE No. 55 (7).

FROM JAGANADGIRI TO RAMACHANDRAPURAM.

Epitome.—Fully gravelled along the canal bank.*Direction.*—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE No. 55 (7).
Civil.	Mili- tary.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C., SOUTHERN, MADRAS DISTRICT, WELL-INGTON.	..	JAGANADGIRI.—
		1	RAMACHANDRAPURAM.—7 m. 4 f.
		7 m. 4 f	<p><i>Camping ground.</i>—E. of town 180 yds. square. <i>Water.</i>—Drinking, 4 wells within 100 yds. of camping ground. Animals and washing, canal 400 yards from camping ground. Surrounding country very enclosed. Numerous palm tree plantations and approaches to villages very densely enclosed. Very difficult country for movement of any arm. <i>Supplies.</i>—At Ramachandrapuram 5 bellocks, 50 carts, 25 sheep, 3,000 lb. wood. Rice, any amount.</p>

ROUTE NO. 56.

FROM COCANADA TO JANGAREDDIGUEM.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

78½ miles.

8 stages.

Epitome.—This is a very good road, metalled and bridged, with the exception of 3 large rivers, and practicable for artillery and cavalry at all seasons; floods on the Godavari occasionally interfere with traffic for some time.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 56.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C., SOUTHERN, MADRAS DISTRICT, WELLINGTON.	1	COCANADA.— <i>Vide</i> Route No. 55, stage <i>b.p.t.r.</i> No. 10.
		8 m. 0 f.	SAMALKOT.—8 m. An old military cantonment. Metalled road, along left bank of Samalkot canal, fit for motors and in good repair. Country cultivated. Black cotton soil. This place is a junction of the East Coast Railway. Route No. 67 crosses here. Cross Yelore R. twice, bridged. <i>Camping ground.</i> —Good and high, N. of town. <i>Water.</i> —For 10,000 men and 1,000 animals, from well and canal. <i>Fuel.</i> —50,000 lbs. stacked. <i>Fodder.</i> —For 1,000 animals, in rains <i>Supplies.</i> —Grain for 2,000 men and 500 animals for 1 day; vegetables 10 maunds; other supplies <i>nil</i> . At 3 m. Sarpanaram (1,800); 4½ m. Venkata Krishna Ravapuram (1,400).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 56.
Civil.	Military.		
COLLECTOR OF GODAVARI, GOCANADA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON,	2	NALLACHERUVU.—11 m. 3 f.—Metalled road, fit for motors. Country open and cultivated.
		19 m. 3 f.	Camping grounds.—1.98 acres E. of village and cultivated land only. Water.—Scarce at times; if tank is full, for 2,000 men and 2,000 animals. Fuel.—Notice required. Fodder.—No grazing. Supplies.—Grain, with notice; oxen 839; sheep 240, with notice; goats and vegetables nil.
			3 m. Rūmasampetta (587); 10½ m. Peddapur (15,433).
		3	RAJANAGARAM.—6 m. 5 f.— <i>Vide</i> Main b.p. Route No. V, stage No. 70. Road as before. Country wet cultivation.
		26 m. 0 f.	
		4	RAJAHMUNDRY.—10 m. 1 f. <i>Vide</i> Main p.b.l.r. Route No. V, stage No. 69.
		36 m. 1 f.	
		5	TALLIPUDI.—16 m. Road runs along the left bank of the Godavari R. which is crossed at Takapudi; it is a partly metalled and gravelled road, fit for motors in hot weather. The country is open and
		52 m.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 56.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p>cultivated. There is a travellers' bungalow at Prakkilanka, 2 m. from Tallipudi. Boats are available for crossing the river, but foot passengers can cross by the railway bridge.</p> <p><i>Camping ground.</i>—No fixed site.</p> <p><i>Water.</i>—Unlimited; from 10 wells and river.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Grazing <i>nil</i>.</p> <p><i>Supplies.</i>—Grain at weekly market, Sunday, for 1,000 men and 500 animals; oxen <i>nil</i>; sheep and goats 500 each, with notice; vegetables from the market, except in May and June.</p> <p>Pass Kohnur (3,891); Dommaru (3,620); Dharmavaram (1,021); Mallakapalli (1,736); Peddaram (1,704); Vigeswarapuram (2,231).</p>
		6	GOPALPURAM.—10 m. 4f. Road partly metalled, partly gravelled, fit for motors in hot weather only. Country open and cultivated; soil partly black cotton.
		62 m.	
		5 f.	<p><i>Camping ground.</i>—No selected site.</p> <p><i>Water.</i>—Scarce at times; ordinarily sufficient for 500 men and 200 animals.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—200 acres grazing for 200 animals.</p> <p><i>Supplies.</i>—Grain for 200 men and 200 animals for one day, with notice; oxen <i>nil</i>; sheep and goats 500 each, with notice; vegetables; with notice, except in summer.</p> <p>Pass Prakkilanka (1,206); Peddunetta (328); Gassaram (1,095); Andavarapeta (2,744); Chityala (1,157).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 56.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		7	KOYELAGUDAM.—8 m.—Metalled road, fit b. (534). for motors. Country as before.
		70 m. 5 f.	Camping ground.—1 sq. m., S. of village. Water.—From tank and wells; scarce. Fuel.—Nil. Fodder.—Grazing for 500 animals 3 m. away. Supplies.—Grain for 1,000 men for 1 month; oxen and goats nil; sheep 100; vegetables scarce. 4 m. Jagamadapuram (360); 6 m. Achutarpu- ram (400).
		8 78 m. 5 f.	JANGAREDDIGUDEM.—8 m. Road and b.p. country as before. Cross the Bayana river, stone and iron bridge, 30 yds wide. The river cannot be forded when in flood. Route No. 58 joins here. Camping ground.—55 yds. × 22 yds. E. of village and $\frac{1}{2}$ sq. m. near. Water.—For 1,000 men and 100 animals, from 1 band and 9 wells. Fuel.—Nil. Fodder.—100 acres grazing for 1,000 animals 4 m. away. Supplies.—Grain for 1,000 men for 1 month; oxen and goats nil; sheep 100; vegetables scarce. At 4 m. Bayanagudem (2,021); 6 m. Narananna- palem (300).

ROUTE NO. 57.

FROM JEYPORE TO SOSAHANDY.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—2 miles.

2 stages.

Epitome.—General direction—West. From Jeypore the road is metalled.

AUTHORITIES:		No. of stage and total distance.	ROUTE NO. 57.
Civil.	Military.		
COLLECTOR OF VIZIANAGRAM, WALTAIR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	JEYPORE.— <i>Vide</i> Route No. 55, final stage. <i>p. l.</i>
		14 m. 0 f.	<p>BORIGUMMA.—14 m. Good, metalled road, (328). fit for all transport. Country open, with patches of paddy cultivation. Route No. 70 joins here. Cross 3 <i>nalas</i>, wooden-bridged, and 1 <i>nala</i>, stone-bridged.</p> <p>Camping ground.—60,000 sq. yds., N. of village.</p> <p>Water.—For any number.</p> <p>Fuel.—Plentiful.</p> <p>Fodder.—100 cares grazing, within 1 m.</p> <p>Supplies.—Gram for 3,000 men for 1 month, and for 100 animals for 10 days; oxen 4; sheep 5; goats 10; vegetables <i>nil</i>.</p> <p>4 m. Almiri (662); 5 m. Dissaiputti (46); 6 m. Roadapalli (251); 8 m. Kunmilipatti (83); 9 m. Haradaputti (279); 10 m. Kunidpatti (44); 11 m. Jayantgiri (378); 13 m. Kudiguda (178).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 57.
Civil.	Military.		
COLLECTOR OF VIZIANAGRAM, WALTAIR.	G. O. C. MADRAS, DISTRICT, WELLINGTON.	2	<p>SOSAHANDY.—7 m. Road metalled, in fair repair. Country open, with some cultivation. There is a rest-house here.</p> <p>Cross 3 <i>nalas</i>, wooden-bridged.</p> <p>Camping ground.—250,000 sq. yds., W. of village.</p> <p>Water.—From a tank and well, for 2,000 men and 500 animals.</p> <p>Fuel.—Plentiful.</p> <p>Fodder.—100 acres grazing, within 1 m.</p> <p>Supplies.—Grain for 200 men for 2 days; oxen 5; sheep 4; goats 10 vegetables <i>nil</i>.</p> <p>3 m. Bijapur (216); 5 m. Kosaguda (356); 6 m. Kuvagam (109).</p>
		21 m. 0 f.	

ROUTE No. 57 (1).

FROM KOTAPAD TO NOWRANGAPUR.

Epitome.—Cross the Indravati river, unbridged.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 57 (1).
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.			
GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			
		1	<p>KOTAPAD.—Vide Indian Route Book Vol. V. p.</p> <p>NOWRANGAPUR.—19 m. Vide Route No. 70, stage No. 10. p.</p>

ROUTE NO. 58.

FROM ELLORE TO JANGAREDDIGUDEM.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—34 miles. 3 stages.

Epitome.—The road is metalled throughout, and is practicable for carts, except during the rains, when the unbridged streams are unfordable for a day or two.

Direction.—North-North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 58.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C., MADRAS DISTRICT, WELLINGTON.		ELLORE.— <i>Vide</i> Main Route No. V, stage No. b. p. t. 64.
		1	MANDUR.—9 m. Metalled road, fit for motors. Country cultivated. Cross one bridged and one unbridged.
		9m. 0f.	<i>Camping ground.</i> — <i>nala</i> , Nil except rest-house compound. <i>Water.</i> —From tanks and wells, for 500 men and 200 cattle. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain and vegetables <i>nil</i> ; oxen 648; sheep 108; goats 389. 2 m. Sanavarapapadi (594); 3½ m. Vigavaram (326); 4 m. Gopannapalam (98); 4¾ m. Gul-yagudem (47); 6½ m. Ganganagudem (1,212); Mandur (1,606).
		2	KAMARAPAKOTAH.—13 m. Metalled road, b. . . fit for motors.
		22m. 0f.	First 5m. of country cultivated; thence jungle and rocky. A rest-house here.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 58.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C., MADRAS DISTRICT, WELLINGTON.		<p><i>Camping ground.</i>—Rest-house compound only, to E.</p> <p><i>Water.</i>—From tank and wells, for 1,000 men and 500 cattle.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—10 acres grazing, at 1 m., for 500 animals.</p> <p><i>Supplies.</i>—Grain and vegetables <i>nil</i>; oxen 420; sheep 150; goats 250.</p> <p>1½ m. Chakrayagudem (519); 2½ m. Vagibada (772), 5 m. Tadikalligundi and 9 m. Anamilli hamlet (together 2,89).</p>
		3 34m. 0f.	<p>JANGAREDDIGUDEM.—12 m. <i>Vide</i> route b. p. No. 56.—stage No. 8. (2,115). Metalled and gravelled road, fit for motors. Country open and cultivated. A local fund bungalow here. Cross several small streams, bridged.</p> <p>2½ m. Gollagudem (200); 4½ m. Nagaganapuram (150); 7 m. Ravikampudem (450); 8½ m. Devalapalli (390); 9½ m. Puttakuddagudem (300); 11½ m. Gulliagudem (2,000).</p>

ROUTE NO. 59.

FROM MOGALTUR TO RAJAHMUNDRY.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.— $50\frac{3}{4}$ miles.

5 stages.

Epitome.—Except for a few miles (6 miles, 5 furlongs) before Narsapur, where there is only a pat way on a canal bank, the road as far as Vizeswaram is metalled and passable for troops, and from the latter place, there is communication by boat and steamer with Rajahmundry. Foot passengers and cattle can cross from Vizeswaram to Dowlaishram by the anicut from 1st March to 10th June, but carts are not allowed to do so.

Direction.—North-East-East.

A. AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 59.
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	MOGALTUR.— <i>Vide</i> Route No. 55, stage No. 3. <i>b. p.</i>
		13m. 1f.	PALAKOL.—13 m. 1 f. Metalled road, fit for <i>b. p. t.</i> motors. Country (12,953). rice cultivation. <i>Camping ground.</i> —20 acres, E. and S.-E. of village. <i>Water.</i> —Good supply; from canal. <i>Fuel.</i> —200 loads. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 1,000 men and 1,000 animals for 1 month: oxen 100; sheep and goats nil; vegetables 50 maunds per day. 3 m. Sitarampuram (1,860); 4 m. Nasrapuram (9,795).
		2	PENAKONDA.—9 m. 3 f. A large plain. <i>p. t.</i> Graded road, fit for motors. Country highly cultivated.
		22m. 0f.	

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 59.

COLLECTOR OF GODAVARI, COCANADA.

G. O. C., MADRAS DISTRICT, WELLINGTON.

3

31m. 2f.

Camping ground.—Market place, 5 acres, to N.
Water.—Unlimited; except in dry weather;
then from canal, if necessary.

Fuel.—50 tons.

Fodder.—Nil.

Supplies.—Grain unlimited for men and for 100
animals for 2 weeks; oxen *nil*; sheep and
goats 5 each daily; vegetables available.

2 m. Jinmir (2, 93); 3 m. Vedangi (2,347); 5 m.
Kuvibam (3,815); 6 m. Jagunnadhapuram
(1,138); 7 m. Marupira (2,979); and Negji-
pandi (883).

KAKARAPARRU.—8 m. 6f. A large village.
p. (2,511).

After 8½ m. the
road becomes a

footpath only, unfit for wheeled traffic. Cross
2 streams, fordable.

Camping ground.—None anywhere near.

Water.—From wells, for 6,000 men and 400
animals.

Fuel.— } Nil.

Fodder.— }

Supplies.—Grain for 100 men and 20 animals
for 4 days; oxen 20; sheep 50; goats and
vegetables *nil*.

2 m. Stampudi (790); 2½ m. Yelatipadu (1,241);
3 m. Papaka (866); 4 m. Ejipparru (1,853);
5 m. Kapararam (1,233); 7 m. Seravati (1, 597);
8½ m. Kakaraparu (2,511).

4

44m. 2f.

VIZESWARAM.—13 m. A good-sized village.
b. (1,240).

First 9 m. gravelled,
road fit for wheel-

ed traffic; thence a footpath only. Open and

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 59.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C., MADRAS DISTRICT, WELLINGTON.		<p>cultivated country. On opposite bank of river, Dowliashwaram.</p> <p><i>Camping ground.</i>—None, except vacant space by road side.</p> <p><i>Water.</i>—From the river; unlimited.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—Grazing scarce.</p> <p><i>Supplies.</i>—Grain for 500 men for 2 days and for 200 animals 5 days; oxen 30; sheep <i>nil</i>; goats 30; vegetables 150 maunds.</p> <p>1½ m. Tiparru (1,695); 4¾ m. Kanur (2,094); Munipalli (913); 5¾ m. Kubavachola (801); 8½ m. Dronajuraju Muppam (646); 10½ m. Goparam (565). Cross a canal by a bridge.</p>
		5 50m. 6f.	<p>RAJAHMUNDRI.—6 m. 4 f. <i>Vide</i> Main b. p. t. r. Route No. V, stage No. 69. The road along the river bank is passable, but boats are usually employed for this stage. At 3 m. cross the Godavari R., bridged. The country is sandy.</p>

No. 59 (1).

FROM PALAKOL TO AKUVID.

Epitome.—Cross the Yenamadurru, unbridged, gravelled and bridged, difficult in the rains.

Direction.—West by north.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 59(1).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C. MADRAS DISTRICT, WELLINGTON.	..	PALAKOL. <i>b. p. t.</i>
		1	BHIMAVARAM.—13 m. 0 f. Distance approximate.
		13 m. 0 f.	
		2	AKUVID.—10 m. 4 f.
		23½ m. 4 f.	

No. 59 (2).

FROM PALAKOL TO DODDIPATLA.

Epitome.—Partially bridged, but not gravelled; difficult in the rains.

Direction.—East.

COLLECTOR OF KISTNA MASULIPATAM.	THE G. O. C. MADRAS DISTRICT, WELLINGTON.		PALAKOL. <i>b. p. t.</i>
		1	DODDIPATLA.—8 m. 0 f.
		8 m. 0 f.	

No. 59 (3).

FROM MARUTER TO NALLACHERLA.

Epitome.—Bridged and gravelled, practicable at all times.*Direction.*—*North-West.*

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 59(3).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C., MADRAS DISTRICT, WELLINGTON		MARUTER. <i>p.</i>
		1 34 m. 0f.	NALLACHERLA.—34 m. 0 f <i>Vide</i> Main Route No. V, stage No. 66.

No. 59 (4).

FROM MARUTER TO SIDHANTUM.

Epitome.—Partially bridged and gravelled, practicable at all seasons.*Direction.*—*North-East.*

COLLECTOR OF KISTNA, MASULIPATAM.	G. O. C., MADRAS DIS- TRICT, WELLINGTON.		MARUTER. <i>p.</i>
		1 6 m. 4f.	SIDHANTUM.—6 m. 4 f. <i>p.</i> (On the Godavari river.)

No. 59 (5).

FROM KHANDAVILLI TO KAKARAPARRU.

Epitome.—Cross the Velpur Canal and two drains, unbridged, Road partially bridged and gravelled, practicable at all seasons.

Direction.—*North-East.*

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 59(5).
Civil.	Military.		
COLLECTOR OF KISTNA, MASULIPATAM.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		KHANDAVILLI. <i>p.</i>
		1 14 m. 4f.	KAKARAPARRU.—14 m. 4 f. <i>p.</i>

ROUTE NO. 60.

FROM SAMALKOT TO MALKANAGIRI.

Authority and date.—General Officer Comanding, 9th Division, January 1919.

Distance.—134 miles.

11 stages.

Epitome.—The road is metalled as far as Jaddangi, but beyond that foot-passengers and baggage animals only can proceed, as the track then traverses a hilly country covered with forest, in which water is scarce and supplies not procurable; fever is more or less prevalent at all times along this portion of the route. Beyond Kondakamberu, the distances are approximate only.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 60.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON		SAMALKOT.— <i>Vide</i> Route No. 56, stage No. 1. <i>p. b. t. r.</i>
		1	JAGGAMMAPETA.—12 m. <i>Vide</i> Main Route No. V, stage No. 71. Metalled road, fit for motors. Country cultivated.
		12 m. Of.	3 m. Peddapur. (15,436); 8 m. Venyayammappela (3,973).
		2	YELESWARAM.—10 m. Metalled road, fit for motors. Country cultivated. Route No. 61 joins here.
		22 m. Of.	<i>Camping ground.</i> —Nil.
			<i>Water.</i> —From wells and streams, for 1,000 men and 500 animals.
			<i>Fuel.</i> —Obtainable.
			<i>Fodder.</i> —Nil.
			<i>Supplies.</i> —Grain for 600 men for 10 days and 100 animals for 1 week; oxen 960; sheep 44; goats 663; vegetables obtainable.
			1 m. Ramawaram (1,012); 5½ m. Somavaram (1,036); 6 m. Yernavaram (1,261); 5½ m. a stream, bridged.
		3	JADDANGI.—16 m. A small village. Road metalled, unbridged, and fit for motors.
		38 m. Of.	

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 60.

COLLECTOR OF VIZAGAPATAM, WALTAIR.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

4	<p>Country mostly open and cultivated, but rocky, jungly and wooded at intervals. <i>Camping ground</i>.—Nil. <i>Water</i>.—From wells, for any number. <i>Fuel</i>.—Obtainable. <i>Fodder</i>.—Grazing for 1,000 animals, $\frac{3}{4}$ m. away. <i>Supplies</i>.—Limited 800 seers of rice can be obtained at weekly market. 7 m. Annavatam (2,000).</p>
54 m. Of.	<p>KOTUR.—16 m. A fair jungle—track, fit for bullock carts only. Country jungly, rocky and wooded. Cross 3 <i>nalas</i>, unbridged, fordable. <i>Camping ground</i>.—40,000 sq. yds., E. of village. <i>Water</i>.—From streams, for 500 men and 500 animals. <i>Fuel</i>.—Plentiful. <i>Fodder</i>.— } Nil. <i>Supplies</i>.— } 6 m. Lagaravil; 8 m. Kakarapadu (58); 10 m. Singaram (17).</p>
5 68 m. Of	<p>PEDDAVALSA.—14 m. A hamlet. Bridle path only, very steep for 5 m. (77). Country as before. Cross 5 <i>nalas</i>, unbridged, fordable. Route No. 64 joins here. <i>Camping ground</i>.—80,000 sq. yds., E. of village. <i>Water</i>.—From stream and tank, for 1,000 men and 1,000 animals. <i>Fodder</i>.— } <i>Supplies</i>.— } Nil. 1 m. Surandharapalem (53); 3 m. Doddaram (110); 5 m. Marrivada (152); 6 m. Guddipilli (88); 8 m. Bodaralla (132).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 60.— <i>contd.</i>
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WAITAIR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		6	GUDEM.—10 m. A bridle path. Country as (490). before. Cross 3 <i>nalas</i> fordable.
		78m. Of.	<p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From stream for 4,000 men and 4,000 animals.</p> <p><i>Fuel.</i>—Plentiful.</p> <p><i>Fodder.</i>— } Nil.</p> <p><i>Supplies.</i>— }</p> <p>2 m. Lakavarapupatu (64).</p>
		7	DHARAKONDA.—16 m. A bridle path ; very steep at 8 m. Country as before.
		94 m. Of.	<p>Cross a stream fordable. Routes Nos. 79 and 82 joins here.</p> <p><i>Camping ground.</i>—40,000 sq. yds. E. of village.</p> <p><i>Water.</i>—From a stream for 1,000 men and 1,000 animals.</p> <p><i>Fuel.</i>—Plentiful.</p> <p><i>Fodder.</i>— } Nil.</p> <p><i>Supplies.</i>— }</p>
		8	KONDAKAMBERU.—14 m. A footpath only here. Country heavy
		108 m. Of.	<p>the rains. Cross a branch of the Sibon R. near the village 50 yds. wide, ferry maintained. A police station and a rest-house here. Route No. 81 joins at this stage.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From <i>nalas</i> for any number.</p> <p><i>Fuel.</i>—Abundant.</p> <p><i>Fodder.</i>— } Nil.</p> <p><i>Supplies.</i>— }</p> <p>m. Kammerpalli (40).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 60.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR. GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		9	BALIMELA.—9 m. Mud road, in good repair; (30) b. fit for wheeled transport. Cross the
		117 m. 0 f.	Siberi river, unbridged, fordable. <i>Camping ground.</i> —Nil. <i>Water.</i> —Very scarce. <i>Fuel.</i> — <i>Fodder.</i> — } Nil. <i>Supplies.</i> — }
		10	KORKONDA.—9 m. Mud road as before. b. (100). Country jungly. Cross the Patkerin
		126 m. 0 f.	river, unbridged, fordable. <i>Camping ground.</i> —Small. <i>Water.</i> —From a tank; very bad. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> — } Nil. <i>Supplies.</i> — }
		11	MALKANAGIRI.—8 m. Mud road, and p. (1,000). country jungly. Headquarters of a
		134 m. 0 f.	Sub-Magistrate. A police station and rest-house here. Cross the Settgarra river, unbridged, and a <i>nala</i> , fordable. Route No. 62 crosses here. <i>Camping ground.</i> — $\frac{1}{4}$ m. sq., E. of village. <i>Water.</i> —From 3 tanks, for any number <i>Fuel.</i> —Abundant. <i>Fodder.</i> — } Nil. <i>Supplies.</i> — }

ROUTE NO. 61.

FROM YELESWARAM TO DHARAKONDA.

Authority and date.—General Officer Commanding, 5th Division, January 1919.

Distance.—84 miles.

5 stages.

Epitome.—The road is metalled as far as Jaddatigala; 4th stage unfit for carts. This road is a much frequented one, as all supplies for the country, from Rayapalli to Gurtedu, are obtained from the weekly market at Addatigala.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 61.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	YELESWARAM.— <i>Vide</i> Route No. 60, stage No. 2.
		16 m 0 f.	<p>ADDATIGALA.—16 m. A small village. (440) p. Road metalled and gravelled, practicable for motors and wheeled traffic at all seasons. Country mostly open and cultivated, but jungly and rocky in portions. Cross the Madern, a branch of the Yeleri River, bridged; also 4 <i>nalas</i>.</p> <p><i>Camping ground.</i>—50 acres, W. of village.</p> <p><i>Water.</i>—From wells, for 500 men and 500 animals.</p> <p><i>Fuel.</i>—Plentiful; near village.</p> <p><i>Fodder.</i>—1,000 acres grazing, $\frac{1}{2}$ m. from village.</p> <p><i>Supplies.</i>—4,000 seers of rice from weekly market.</p>

ROUTE NO. 61.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	2	RAYAPALLI.—10 m. A small village. Good (360). jungle—track, which can be traversed by carts in dry weather, but it is unfit for motors. Country as in previous stage. Cross 1 <i>nala</i> , unbridged, 5 ft. deep in rains. 5 m. Tangamadugulu (300).
		16 m. Of.	
		3	SANAGEDDA.—11 m. A small village. (125). Jungle, track and country as before. At 2 m. cross a river, 100 ft. fordable, except after heavy rain. <i>Camping ground</i> .—Nil. <i>Water</i> .—Unlimited, in rains; in dry weather; for 100 men and 100 animals only. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 500 animals, within one furlong. <i>Supplies</i> .—Nil. 6 m. Murvalavada.
		37 m. Of.	
		4	GURTEDU.—26 m. Bridle path, unfit for (300). wheeled transport. Country wooded and mountainous, the path going over the Xidunom-pala Ghat for 8 m. Cross 5 <i>nalas</i> , unbridged, fordable. <i>Camping ground</i> .—50 acres, W. of village. <i>Water</i> .—From a stream, for any number. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Grazing for 500 animals, within a furlong. <i>Supplies</i> .—Nil.
		63 m. Of.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 61.
Civil.	Mili- tary.		
COLLECTOR OF VIZAGAPATAN, WALTAIR.	G. O. C. MADRAS DISTRICT, WELLINGTON.	5	DHARAKONDA.—21 m. <i>Vide</i> Route No. 60, stage No. 7. Cart track, in bad repair; ascends a ghat. Rocky, wooded country. Cross 2 <i>nalas</i> , unbridged, fordable. 10 m. Nilajarta (32).
		84 m. 0 f.	

No. 61 (1).

FROM RAMPA TO SAMAGEDDA *viâ* KOTA.*Direction.*—North-East.

COLLECTOR OF GODAVARI. DISTRICT, COCANADA.	G. O. C., MADRAS DISTRICT WELLINGTON.		RAMPA.
		1	KOTA.—16 m. 0 f. This track has been im- proved by sappers as far as Gung- gudem. Cross a small river once, always fordable. From Gungigudem, a fair track.
		16 m. 0 f.	
		28 m. 0 f.	SAMAGEDDA.—12 m. 0 f. A good track all the way.

No. 61 (2).

FROM RAMPA TO GURTEDU, *Viâ* BODULUR.*Direction.*—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 61 (2).
Civil.	Milit- tary.		
COLLECTOR OF GODAVARI, DISTRICT COCANADA.	O. C., MADRAS DISTRICT, WELLINGTON.	1	RAMPA.
		18 m. 0f	MAREDUMILLI.—18 m. 0f. For 12 miles, <i>i.e.</i> ; as far as China- gandi, a rough cart- road, afterwards a jungle-track; cross a stream near Maredumilli, always fordable.
		2	BODULUR.—10 m. 0f. A jungle-track; cross the Pamuleru river at Kutwara, a rapid stream with rocky bottom, not fordable in the rains.
COLLECTOR OF VIZAGA- PATAM, WALTHER	O. C.,	3	GURTEDU.—30 m. 0f. <i>Viâ</i> Valagudem; a fair jungle track, there is a small and easy hill to ascend before getting into the Gurtedu Valley.
		58 m. 0f.	

No. 61 (3).

FROM MAREDUMILLI TO LAKKAVARAM (IN THE BHADRA-
CHALAM SUB-DISTRICT).

Epitome.—This route is much used in ordinary time by Brinjaries conveying salt from the coast to the Central Provinces. From Lakkavaram, they proceed *viâ* Motu and the Bastar country.

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 61 (3).
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON	1	MAREDUMILLI.
		8 m. 0 f.	VALAMUR.—8 m. 0 f. A jungle-track; cross the Pamuleru river near Valamur, not fordable during the rainy season; from Valamur, there is a jungle track over the hills as far as Dubbadhuli, or Kottudumetta; then ascend the Kannamaradul and Gurrappuhari hills; cross the Sileru river near Thulsipaka, to go to Lakkavaram.
		2	LAKKAVARAM.—16 m. 0 f.
		24 m. 0 f.	WUDAGUEM.—On the Godavari river. (1,339). <i>Camping ground.</i> —Nil. <i>Water.</i> —Unlimited; from river. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing available. <i>Supplies.</i> —Grain, with notice, for 1,000 men; oxen, sheep and goats 50 each; vegetables in rains only.

ROUTE NO. 62.

FROM WUDAGUEM TO JEYPORE.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—156 miles. 9 stages.

Epitome.—The road is earthen (except in stages 4 and 9) as far as Moat, with temporary wooden bridges. Fever is prevalent throughout the year, but especially so in the hot seasons.

Direction.—North and north-east.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 62.
Civil.	Military.		
COLLECTOR OF GODAVARI, COCANADA.	G. O. C., MADRAS DISTRICT, WELLINGTON.	1	<p>WUDEGUEM.—On the Godavari river. (1289).</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—Unlimited supply: from river.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing available.</p> <p><i>Supplies.</i>—Grain, with notice, for 1,000 men; oxen, sheep and goats 50 each: vegetables, in rains only.</p>
		24 m. Of.	<p>MOAT OR MOTU.—24 m. A small village. (100). Mud road, in good repair, unfit for motors. Country jungly. Cross river, unfordable; boats available.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From river, for any number.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Nil.</p> <p>10 m. Ranakaram; 13 m. Mallikota; 16 m. Koderu; 19 m. Chintur (200); 23 m. Kallera (200).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 62.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	POSAGUEDEM.—12 m. Road and country as (30). in previous stage.
		36 m. 0 f.	Camping ground.—Nil Water.—Scarce. Fuel.—Scarce. Fodder.— } Nil. Supplies.— }
		3	ANANTAPALLI.—6 m. A hamlet. Footpath (120). only. Country as before. Cross I nala, fordable, except in rains; ferry maintained. No camping ground, and water scarce. A police station here.
		42 m. 0 f.	Fuel.—Obtainable. Fodder.—Nil. Supplies.—Nil. 3½ m. Peddavada (20).
		4	KALLIMELA.—22 m. A hamlet. Metalled (40). road in good repair, but unfit for motors.
		64 m. 0 f.	Country heavily wooded. Camping ground.—Nil. Water.—Scarce and bad. Fuel.—Plentiful. Fodder.— } Nil. Supplies.— }
		5	MAIKANAGIRI.—24 m. Vide Route No. 60, stage No. 11. Mud. road, unfit for motors. Country jungly.
		88 m. 0 f.	At 9 m. the Potternu river, 50 yds., fordable, except in rains; ferry maintained.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 62.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.		6	KOTAMETLA.—16 m. Road nad country as before. At 4 m. a <i>nala</i> , 50 yds., ford-
		104 m 0 f.	able, except in flood. <i>Camping ground</i> .—Nil. <i>Water</i> .—Scarce; from a <i>nala</i> . <i>Fuel</i> .—Obtainable.
			<i>Fodder</i> .— } Nil. <i>Supplies</i> .— }
		7	GOVINDPALLI.—18 m. Mud road, unfit for motors; country
THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		122 m. 0 f.	<i>Camping ground</i> .—Extensive. <i>Water</i> .—Bad and scarce in hot season. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Nil. At 6 m. Pangam (40) and <i>nala</i> , 50 yds., fordable, except in rains, ferry maintained; 12 m. Mettili (150); 16 m. Uddilibeda.
		8	KOLLAR.—14 m. Mud road, unfit for motors.
		136 m. 0 f.	Country jungly. Des- cend a short hill, and cross a stream several times, fordable, 5 ft. deep in rains. <i>Camping ground</i> .—250,000 sq. yds., E. of village. <i>Water</i> .—From 2 wells, for 500 men and 200 animals. <i>Fuel</i> .—Plentiful.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 62.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIR.	GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	9	<i>Fodder.</i> —200 acres grazing, within 2 miles. <i>Supplies.</i> —Grain for 100 men and 50 animals for 1 day; oxen 4; sheep 2; goats 10; vegetables nil.
		156 m. 0 f.	JEYPORE.—20 m.— <i>Vide</i> Route No. 55, stage p. 1. No. 28. Cross the Kolab river, unbridged, at 12 m. It is 100 ft. wide, fordable, except in rains: 2 boats for 8 men each available. Road metalled, gravelled and in good repair but unfit for motors. Country jungle and cultivation alternately. Cross 3 <i>nalas</i> , wooden bridges. 5 m. Boyiparigupa (100); 11 m. Gusehra (330); 13 m. Ballia (300); 15 m. Polkapatti (149); 17 m. Kunturukhalla (121); 18 m. Jayanagar (504).

No. 62 (1).

ALTERNATIVE ROUTE BETWEEN MOAT AND MALKANAGIRI.

COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.	<i>Direction.</i> —North-east.	
		MOAT OR MOTU.	
		1	<p>PODIA.—26 m. 0 f. Country flat; track through light jungle swampy in rainy weather; cross 2 <i>nalas</i>, sometimes unfordable in the rains; the Patteru river, unbridged crossed at Potakupalli, is not fordable in January.</p>
		26 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 62.
Civil.	Mili- tary.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIL.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.	2	DARAMPILLI.—15 m. 0f.
		41 m. 0f.	
		3	MALKANAGIRI.—16 m. 0f. There are also p. two other routes between Moat and Malkanagiri, <i>viâ</i> Venkatapalem and Kulmidi, respectively, but not so good as the above.
		57 m. 0f.	

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ROUTE NO. 63.

FROM VIZAGAPATAM TO KONDAKAMBERU.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—112½ miles.

11 stages.

Epitome.—The road is metalled, and all the smaller streams are bridged except between Lammasingi and Korkonda, where it is a mere track practicable for foot passengers and baggage animals only. The distances are only approximate.

Direction.—West-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 63.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE GENERAL OFFICER COMMANDING G. MADRAS DISTRICT, WELLINGTON.		<p>VIZAGAPATAM—Route No. 66 starts here; (FROM THE FORT). a large town. <i>p. t. r.</i> (43443). <i>Camping ground.</i>—N. and W. of town. <i>Water.</i>—From the water-works. <i>Fuel.</i>—Cut, 100 tons stacked. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Grain for 1,000 men for 1 month; oxen nil; sheep 500; goats 500; vegetables for 1,000 men.</p>
		1	<p>AGANAMPOODI.—12m. A small village. <i>p.</i> Metalled road, fit for all transport. Country cultivated. Cross 2 <i>nalas</i>, bridged, and Vizagapatam backwater by pontoon bridge. <i>Camping ground.</i>—5 acres. <i>Water.</i>—From 3 wells; scarce in summer. <i>Fuel.</i>—Cut, available. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Grain for 100 men and 50 animals for 1 day at a week's notice; oxen 30, sheep 3, goats 3, vegetables nil.</p>
		12 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 63.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.			1 m. Chintalapam ; 2 m. Malkapuram ; 6 m. Gajinak ; 7 m. Chinnacorteda ; 8 m. Bedlapadu .
		2	KASIMKOT.—12 m.—A large place. Road fit for all transport. (6754) <i>b. p.</i>
		24 m. 0 f	Country cultivated. At 9 m. pass Anakapalli (20,625), where Main Route No. V is struck. There are East Coast Railway stations at Anakapalli and 1½ m. E. of Kasimkota.
			<i>Camping ground.</i> —20 acres. <i>Water.</i> —From wells and river. <i>Supplies.</i> —Abundant.
THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			3 m. Lakalupalem (1044) ; 4 m. Salupavimpam (630) ; 7 m. Kappalle (608) ; 9 m. Saradu river, 200 yds., bridged ; 11 m. Pushakalu (426).
		3	KANNURUPALEM.—10 m. 2 f. A fair-sized village. Road fit for baggage transport.
		34 m. 2 f.	Country cultivated. The route leaves Main Route No. V in this stage
			<i>Camping ground.</i> —Nil. <i>Water.</i> —For 200 men and 50 animals. <i>Fuel.</i> —Obtainable, from Forest Reserve. <i>Fodder.</i> —Nil.
			<i>Supplies.</i> —Grain for 100 men and 25 animal for 1 day, with 4 days' notice ; other supplies <i>nil</i>
			1½ m. Bayyavaram (3,337) ; 3 m. But hayyapeta (2,350) ; 5 m. Tallapalem (2,564) ; 8 m. Sundarayyapetta (881). Cross 2 <i>nalas</i> 60 yds. and 125 yds wide, both fordable.

ROUTE NO. 63.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		4	MAKAVARAPALEM.—7m. A large village. p. (2,198). Road fit for all transport. Country cultivated. <i>Camping ground</i> .—Only market place available. <i>Water</i> .—From River, tanks and wells; scarce in summer. <i>Fuel</i> .—Plenty obtainable. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 100 men and 100 animals for 10 days; oxen 100; sheep 50; goats 50; vegetables for 50 men. 3 m. Brinbovinapalem (545).
		41 m. 2 f.	
		5	NARSAPATNAM.—8m. <i>Vide</i> Route No. 55, b.p.t. stage No. 16. Road fit for all transport. Country open, flat and cultivated. Route No. 82 joins here. At $\frac{1}{2}$ m. and at 7 m. cross the Varaba river, 100 ft. wide, fordable. 1 m. Kaidalagralam (1,145); 7 m. Pedabaddipalli (2,600).
		49 m. 2 f.	
		6	KONDASANTHA.—8 m. Road fit for all transport. Country cultivated. Cross the Varaba river, unbridged, at 4 m. fordable, 30 yds. wide. <i>Camping ground</i> .—Bad. <i>Water</i> .—For 100 men and 100 animals. <i>Fuel</i> .—Plentiful; from adjacent forest. <i>Fodder</i> .—Nil. <i>Supplies</i> .—None locally. 3 m. Gabbada (685); 4 m. Rewanapalli (232); 5 m. Vetegainnapetta (391); 7 m. Pedapet (241).
		57 m. 2 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 63.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIL.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT WELLINGTON.	7	LAMMASINGI.—9 m.—A small village. Road (304). is a cart track only, ascending a ghat, in good repair. Rocky, jungle country. Cross 3 <i>nalas</i> , 15 yds., unbridged, fordable. Route No. 65 joins here.
		66 m. 2 f.	<i>Camping ground</i> .—Nil. <i>Water</i> .—From stream and well; very scarce in summer. <i>Fuel</i> .—Plentiful; from jungle. <i>Fodder</i> .— <i>Supplies</i> .— } Nil.
		8	LOTUGEDDA.—14 m. A hamlet. Bridle-path (136). only, in good repair. Through rocky, wooded country. Cross 3 <i>nalas</i> , 10 yds., unbridged, fordable.
		80 m. 2 f.	<i>Camping ground</i> .—40,000 sq. yds., W. of village; not good. <i>Water</i> .—Plentiful; from a stream, for 41,000 men and 4,000 animals. <i>Fuel</i> .—Plentiful; from forest. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Nil. 6 m. Borisingi (19); 7 m. Maimdipawi (22).
		9	KORKONDA.—12 m. A hamlet. Bridle-path through thickly wooded country.
		92 m. 0 f.	Cross 2 <i>nalas</i> , 10 yds., fordable, unbridged. <i>Camping ground</i> .—Nil. <i>Water</i> .—From a stream, for 1,000 men. and 1,000 animals. <i>Fuel</i> .—Plentiful; from forest.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 63.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WAITAIR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<i>Fodder.</i> — } Nil. <i>Supplies.</i> — }
		10	JANNUVAI.—12 m. A hamlet. Foot-path only, through heavy jungle. Pass one
		104 m. 2 f.	fairly stiff hill. At 6 m. the Sidern river, 50 yds. wide, unfordable, ferry maintained. <i>Camping ground.</i> —Nil. <i>Water.</i> —Nil. <i>Fuel.</i> —Abundant, from forest. <i>Fodder.</i> — } Nil. <i>Supplies.</i> — }
		11	KONDAKAMBERU.—8 m. Vide Route No. b. 60, stage No. 8.
		112 m. 2 f.	Foot-path only, as before. At 8 m. the Sidern river, 50 yds., unfordable, ferry maintained.

No. 63 (1).

FROM CHINTAPALLI TO GUDEM.

Epitome.—This is 8 miles longer than the main road, over which it offers no advantages.

Direction—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 63—(1).
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALT AIR.	THE GENERAL OFFICER COMMANDING, MADRAS, DISTRICT. MADRAS.		CHINTAPALLI.—About 7 miles from Lotu- (NEAR ANTARLA). gedda; a feverish place; no supplies.
		1	GUDEM.—12 m. 0 f.— <i>Vide</i> Route No. 60, stage No. 6.
		12 m. 0 f.	

ROUTE NO. 64.

FROM NARSAPATNAM TO DHARAKONDA.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—60½ miles.

5 stages.

Epitome.—The road is metalled as far as Golugonda, thence gravelled up to a few miles beyond Kristnadevipeta; practicable at all seasons; the remainder of the road is a mere track, traversing a hilly country, covered with forest in which water is scarce and supplies not procurable; only foot-passengers and baggage animals can use the track; fever is more or less prevalent at all times on this portion of the route. Beyond Golugonda, the distances are approximate only.

Direction.—West-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 64.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C. MADRAS DISTRICT, WELLINGTON.	1	NARSAPATNAM.— <i>Vide</i> Route No. 55, stage No. 16.
		10 m. 4 f.	GOLUGONDA. 10 m. 4 f. A town. Metal- p.t. (4,092). led road, in bad con- dition, unfit for motors. Country alternately open and culti- vated, jungly and hilly. Cross one <i>nala</i> , 30 yds., fordable. <i>Camping ground.</i> —40,000 sq. yds., W. of town <i>Water.</i> —From 2 wells, for 1,000 men and 1,000 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —Grazing for 5,000 animals, ½ m. away.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 64.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAE. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<i>Supplies.</i> —Grain for 500 men and 500 animals for 10 days; oxen 25; goats 25; sheep 25. 3 m. Chidigurumala (789); 7 m. Verraon (232).
		2 22 m. 4 f.	MAKAVARAM.—12 m. Cart track, in bad repair, fit for bullock carts only. Country open and cultivated. At 6 m. pass Kristnaderipeta, a large village, with plentiful supplies. At 4, 6 and 12 m. cross the Bodden river, 30 yds. wide, fordable. <i>Camping ground.</i> —40,000 sq. yds., after crops are cut. <i>Water.</i> —From river, for 1,000 men and 1,000 animals. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Nil. 6 m. Lavini Puram.
		3 28 m. 4 f.	RAMPOL.—6 m. Cart track, ascending a ghat, through rocky, jungly and wooded country. There is a hill 5 m. long, very rough and difficult. Cross branches of Boddien river at 1 and 2 m., 30 yds., fordable. <i>Camping ground.</i> —40,000 sq. yds., E. of village. <i>Water.</i> —From a stream, for 500 men and 500 animals. <i>Fuel.</i> —Plentiful. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Nil. 1 m. Nadienpalem (133); 2 m. Natraguda (93).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 64.
Civil.	Military.		
COLLECTOR OF VIZAG- PATAM, WALTAIL.	G. O. C., MADRAS DISTRICT, WELLINGTON.	4	GUEDEM.—16 m. Foot-path only, unfit for any transport. Country very hilly. Cross 4 <i>nalas</i> , 5 yds., ford-able. At 6 m. Paddavalasa (77,) where Route No. 60 joins; at 8 m. Lakavonpapata (64).
		44 m 4f.	
		5	DHARAKONDA.—16 m. <i>Vide</i> Route No. 60, stage No. 7.
		60 m. 4f.	

ROUTE NO. 65.

FROM LAMMASINGI TO PADEROO.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—30 miles.

2 stages.

Epitome.—A mere path, practicable for foot-passengers and baggage animals only.

Direction.—NORTH-EAST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 65.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAE.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		LAMMASINGI.— <i>Vide</i> Route No. 63, stage No. 7.
		1	GANGARAGUMADGOLE.—18 m. Cart (462). track, in bad repair, up a ghat. Through hilly, wooded country. Cross 3 <i>nalas</i> , 5 yards, unbridged, fordable. <i>Camping ground.</i> —Nil. <i>Water.</i> —From stream, for 500 men and 500 animals. <i>Fuel.</i> —Plentiful. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Nil. 3 Tajang (64); 6 m. Kilthara (16); 8 m. Vayari (112).
		2	PADEROO.—12 m. Fair-weather track, in good repair. Country both cultivated and jungly. Cross the Machrygedda river, unbridged, fordable, 100 ft. wide. <i>Vide</i> Route No. 55, stage No. 21. 2 m. Bandavishi (87); 4 m. Kondalakadapalli (163).

ROUTE NO. 66.

FROM VIZAGAPATAM TO PADVA.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—91½ miles.

8 stages.

Epitome.—The road is practicable at all seasons, except stages 6, 7 and 8, where it is a fair-weather one only.

Direction.—NORTH AND NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 66.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIL.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		VIZAGAPATAM.— <i>Vide</i> Route No. 66, initial <i>p.t.r.</i> stage.
		1	PONDUR.—12 m. 5 f. Good water-supply. <i>b.p.r.</i> Provisions available.
		12 m. 5f.	
		2	JAMADEVIPETA.—11 m. 3 f.
		24 m. 0f.	<i>Camping ground.</i> —Ample; near bungalow. <i>Water.</i> —Good supply. <i>Supplies.</i> —Scarce.
		3	SRUNGAVARAPUCOTTA.—12 m. 4 f. <i>b.p.</i>
		36 m. 4f.	<i>Camping ground.</i> —Very small. <i>Water.</i> —Good supply. <i>Supplies.</i> —Nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 66.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		4	KOTTUR.—10 m. At foot of the hills, and b. feverish at times.
		46 m. 4f.	Camping ground.—Small. Water.—Good supply. Supplies.—Nil.
		5	ANANTAGIRI.—11 m. A rise of 2,700 from b.p. Kottur.
		57 m. 4f.	Camping ground.—Small. Water.—Supply good. Supplies.—None procurable.
		6	JANAMGUDA.—7 m. A rough jungle-track, for the most part over a steep ghat, with a very steep fall the other side.
		64 m. 4f.	
		7	ARUKU.—11 m. 0 f. The road is a fair-wea- p. (592). ther one only, in good repair and fit for wheeled transport. A police station here. At 7 m. cross the Chimadighori river, 3' deep, fordable.
		75 m. 4f.	Camping ground.— $\frac{1}{2}$ sq. m., high ground, N. of village. Water.—From a <i>nala</i> , for 1,000 men and 1,000 animals. Fuel.—Nil. Fodder.— $\frac{1}{2}$ sq. m. grazing, 2 m. from village. Supplies.—Nil. $\frac{1}{2}$ m. <i>nala</i> , 3' deep, fordable; 1 m. Santubailu- valsa (61); 3 m. Olupotiguda (850m).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 66.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAE.	C. C. MADRAS DISTRICT, WELLINGTON.	8	Badiguda (71); 5 m. Chonpi (208); 7 m. Kottavalsa.
	THE C. C. MADRAS DISTRICT, WELLINGTON.	91 m. 4f.	PADVA.—16 m. <i>Vide</i> Route No. 55, stage p. No. 25. Country cultivation and jungle alternately. Road as before. Cross 3 <i>nalas</i> , unbridged, fordable. 11 m. (79) Darupet.

ROUTE NO. 67.

FROM SUBBAVERAM TO VIZIANAGRAM.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—34 miles. 3 stages.

Epitome.—The road is metalled, and practicable at all seasons.

Direction.—NORTH-EAST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 67.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		SUBBAVERAM.— <i>Vide</i> Main Route No. V, <i>b.p.</i> stage No. 78.
		1	KOTTAVALSA.—10 m. Metalled road, fit (1,207). for motors. Route No. 66 crosses here.
		10 m. Of.	Country open and cultivated. Cross 4 <i>nalas</i> , unbridged. <i>Camping ground.</i> —Good; S. W. of village. <i>Water.</i> —For 3,000 men and 500 animals. <i>Fuel.</i> —Nil. <i>Fodder.</i> —Grazing at 1 m. for 100 animals. <i>Supplies.</i> —Grain, with notice; oxen, sheep and goats 20 each; vegetables <i>nil</i> . 1 m. Gallipalli (1,902); 3 m. Govapalli (1,495); 5 m. Densom (844); 5 m. Gamsettipett (846); 6 m. Gulwardada; 7 m. Marwesu (637).
		2	ALAMANDA.—9 m. Road metalled, fit for <i>p.r.</i> (3,563). motors. Country open and cultivated. Cross 1 bridged and 2 unbridged <i>nalas</i> ; fordable.
		19 m. Of.	

AUTHORITIES.

Civil.

Mili-
tary.No.
of
stage
and
total
distance.

ROUTE NO. 67.

THE COLLECTOR OF VIZAGAPATAM, WALT AIR.

GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

3

34 m.
of.

Camping ground.—Good; S. W. of village.
Water.—From tank, for 3,000 men and 500 animals.
Fuel.—Scarce.
Fodder.—20 acres at $\frac{3}{4}$ m., grazing for 100 animals.
Supplies.—Grain, with notice: oxen 20; sheep 20; goats 20; vegetables *nil*.
 2 m. Adhamapalam (435); 2 m. Bhangakundatta (643); $4\frac{1}{2}$ m. Kuntakapalli (1,004); 5 m. Kalatapalli (822); $5\frac{1}{2}$ m. Chinnarawapalli (251); 6 m. Nedigalta (450); $6\frac{1}{2}$ m. Bh maludandar (870).

VIZIANAGRAM.—15 m 3 f.—A large place
p.b. t.r. (37,550). and civil station.

Road fit for motors.

Country open. Route No. 68 crosses and Nos. 69 and 70 join here. Cross the Chittavala river, unbridged.

Camping ground.—On parade ground, S. W. of cantonment

Water.—Pipe supply; practically unlimited.

Fuel.—Obtainable.

Fodder.—Grass obtainable.

Supplies.—Grain, large supplies available from market; oxen 20; sheep 20; goats 20; vegetables for 200 men daily.

ROUTE NO. 68.

FROM VIZAGAPATAM TO PARLA—KEMIDI.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—110½ miles.

11 stages.

Epitome.—The road is metalled, except from the boundary of the Ganjam District to Kotturu, where it is gravelled; practicable for carts at all seasons.

Direction.—NORTH-NORTH-EAST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 68.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAR.	GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.	..	VIZAGAPATAM.— <i>Vide</i> Route No. 63, initial <i>p.t.r.</i> stage.
		1	MADHURAVADA.—10 m. 5 f. Metalled road, (FROM THE FORT) (2,130). in good condition, fit for all transport.
		10 m. 5f.	Country cultivated. <i>Camping ground.</i> —N. of village, after crops are cut. <i>Water.</i> —From 2 wells, for 400 men and 100 animals. <i>Fuel.</i> —Cut, a large stock. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Grain for 500 men and 100 animals for 3 days. sheep 100; goats 100; oxen and vegetables <i>nil.</i>
		2	CHETTIVALSA OR THAGARAPUVALSA.—
		20 m. 6f.	10 m. 1 f. <i>Vide</i> Route No. V, stage No. 80. Road as before. Joins at Combitiram, 3 m. from Maduravada.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 68.
Civil.	Military.		
THE COLLECTOR OF VIGAZAPATAM, WALTAIR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		3	VIZIANAGRAM.—15 m. 6 f. <i>Vide</i> Route No. 67, stage No. 3 <i>b.p.l.r.</i> Road fit for all transport. Country cultivated.
		36m. 4 f.	1 m. Chittavasla River, 450 yds. wide, bridged, 11 m. Chintalavalsa (847); 14 Dharamapuria (1,196).
		4	GURLA.—9 m. 4 f.—Road fit for all transport. 717). Country cultivated.
		46 m. 0 f.	At 4½ m. cross the Chanpavati River, 500 yds. wide, unbridged. <i>Camping ground</i> .—500 acres, N. of village. <i>Water</i> .—From 1 tank and 2 wells, for 300 men and 100 animals.
		5	<i>Fuel</i> .— } Arrangements must be made <i>Fodder</i> .— } beforehand for procuring these. <i>Supplies</i> .— } 5 m. Nillimarla (2,820).
		55 m. 7 f.	CHIPURUPALLE.—9m. 7f.—A large village. <i>p.r.</i> (2791). Road fit for all transport. Country cultivated.
			<i>Camping ground</i> .—4 acres, S. W. of village. <i>Water</i> .—Abundant; from 2 tanks, for 5,000 men and 2,000 animals <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 1,000 men and 200 animals for 7 days; oxen 10; sheep 50; goats 25; vegetables <i>nil</i> . 2 m. Gujjangavalsa (575); 8 m. Garividi (464).

ROUTE NO. 68.

AUTHORITIES.		No. of stage and total distance.	
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAE.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WILLINGTON.	6	RAJAM.—10 m. A large village. Road fit <i>p.t.</i> (4,869). for all transport. Country cultivated.
		65 m. 7f.	Cross a <i>nala</i> 50 yds. wide, iron bridge. <i>Camping ground</i> .—4 acres, N. of town. <i>Water</i> .—From a tank, for 1,000 men and 500 animals. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 200 men and 500 animals for 7 days, at a week's notice; oxen 4, sheep 20 and goats 10, at a week's notice, vegetables <i>nil</i> .
		79 m. 7f.	PALKONDA.—14 m. A large place. Road (9,458) <i>p. t.</i> metalled, fit for motors. Country cultivated. Cross the Nagavali River, un- bridged; it is unfordable from June to Decem- ber for days together, but a ferry is main- tained. <i>Camping ground</i> .—5 acres, E. of town. <i>Water</i> .—From 2 tanks, for 2,000 men and 1,000 animals. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—Nil. <i>Supplies</i> .—Grain for 400 men and 100 animals, at 1 week's notice. 2 m. Guravem (223); 4 m. Buvada (655); 5 m. Chinnasirlam (458); 7 m. Latsar-aya- puram (265) and Gullapadu (303); 10 m. Sanikile (1922); 12 m. Gopalapuram (847).
COLLECTOR OF GANJAM, CHATRAPUR.		8	SITAMPETA.—8 m. A small village. Road (253). metalled, fit for motors. Country mostly rocky jungle. Cross 4 <i>nalas</i> , 30 yds. wide, rdable.
		87 m. 7f.	

NOTE.—Please check distances:—that from Sitampeta to Kotturu is believed to be about a mile, not 3.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 68.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Camping ground.</i>—80 acres, W. of village. <i>Water.</i>—From tank and river, for 10,000 men and 1,000 animals. <i>Fuel.</i>—Nil. <i>Fodder.</i>—10 acres grazing at 2 m., for 500 animals. <i>Supplies.</i>—100 oxen only. $\frac{1}{2}$ m. Parapuram (1,150); $1\frac{1}{2}$ m. Kalegani (453); $3\frac{1}{2}$ m. Banniadi (596); 4 m. Jagipadu (388); 6 m. Madanipuram (349); 7 m. Somerajapuram (308); 8 m. Angiva (308).</p>
		9	<p>KOTTURU.—7 m. Metalled and gravelled road, in good repair, fit for motors. First three miles of country are Forest Reserve, after which it is open and cultivated. <i>Camping ground.</i>—4 acres, S. of town. <i>Water.</i>—From 2 wells and 2 tanks, for 2,000 men and 200 animals. <i>Fuel.</i>—Scarce. <i>Fodder.</i>—Grazing at $\frac{1}{4}$ m. for 100 animals. <i>Supplies.</i>—Grain, with 10 days' notice, for 100 men and 30 animals for 2 days; oxen, sheep and goats 100 each; vegetables nil. 2 m. Huddubangi (313); 3 m. Billumada (199); 4 m. Gumada (194); 5 m. Pallipatti (275); 6 m. Sellaharingi (233).</p>
		94 m. 7f.	
		10	<p>ROGADA.—8 m. A small village. Road metalled fit for motors. Country open and cultivated. Cross the Varmarsadara river unbridged, fordable, except in flood; one boat available.</p>
		102 m. 7 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 68.
Civil.	Military.		
COLLECTOR OF VIZAGAPATAM, WALTAIN.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p><i>Camping ground.</i>—1 acre, E. of village. <i>Water.</i>—From 1 well and 1 tank, for 100 men and 100 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>— } Nil. <i>Supplies.</i>— } Nil.</p> <p>$\frac{1}{2}$ m. Nandivadakurmarajapuram (537); 1 m. Singanavalsa (244); $1\frac{1}{2}$ m. Parasurampuram (103); $1\frac{3}{4}$ m. Velagavada (481); 3 m. Sirikonda (128); 6 m. Gondi (100); $7\frac{1}{4}$ m. Turavipualsa.</p>
THE COLLECTOR OF GANJAM, CHAITRAPUDI.		11 110 m. 7 f.	<p>PARLA-KEMIDI.—8 m. A large municipal <i>p. t.</i>, (18,370). and zemindari town. Road metalled, but requires repair. First $1\frac{1}{2}$ m. of country Forest Reserve, then open and cultivated. Route No. 73 joins here. <i>Camping ground.</i>—100 acres, N. of town. <i>Water.</i>—From 3 tanks, for 1,000 men and 1,000 animals. <i>Fuel.</i>—100 loads. <i>Fodder.</i>—10 acres grazing at 1 m., for 1,000 ani- mals. <i>Supplies.</i>—Grain for 1,000 men and 200 animals for 1 week; oxen 50; sheep 100; goats 1,000; vegetables 50 cartloads.</p>

No. 86 (1).

FROM BUGADA TO BALLAIRU.

Epitome.—Cross the Baghuna river, unbridged; a fair-weather track only.

Direction.—NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 68. (1)
Civil.	Mili- tary.		
COLLECTOR OF GANJAM, CHATRAPUR.			BUGADA, p.
	G. O. C. MADRAS DISTRICT WELLINGTON.	1 12 m. 0f.	BALLAIRU.—12 m. 0f.—Distance approxi- mate.

ROUTE NO. 69.

FROM VIZIANAGRAM TO BOWDARA.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—20 miles.

2 stages.

Epitome.—The road is metalled and practicable for carts at all seasons.

Direction.—West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 69.	
Civil.	Military.			
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.	..	VIZIANAGRAM.— <i>Vide</i> <i>b. p. t. r.</i>	Route No. 67, stage No. 3.
		1	TAMARAPALLI.—10 m. 4f. Metalled road, 1,306. in good repair, fit for all transport. Country cultivated. <i>Camping ground.</i> —60 acres, N. of town. <i>Water.</i> —Supply sufficient for 300 men and 100 animals. <i>Fuel.</i> —Cut, 50 cartloads. <i>Fodder.</i> —Nil. <i>Supplies.</i> —Locally, grain for 50 men and 50 animals; other supplies to be obtained by previous arrangement. 6 m. Navara (526) ; 8½ m. Gantyada.	
		10 m. 4f.		

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 69.
Civil.	Mil- itary		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.	2	<p>BOWDARA.—9 m. 4 f. <i>Vide</i> Route No. 66, stage No. 4. Road and country as before. At 8 m. cross the Gosthani river, 20 yds. wide and unfordable when in freshet. The river is unbridged.</p> <p><i>Camping ground.</i>—2 acres.</p> <p><i>Water.</i>—From 1 well; very scarce.</p> <p><i>Fuel.</i>—From Forest Reserve.</p> <p><i>Fodder.</i>—50 acres grazing, within a mile.</p> <p><i>Supplies.</i>—Only vegetables obtainable.</p> <p>3 m. Kondatamanpalli (922); 5 m. Maradam (1,485); 6 m. Tatapidi (237).</p>
		20 m. 0 f.	

ROUTE NO. 70.

FROM VIZIANAGRAM TO KUNDAI.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—211 Miles.

17 stages.

Epitome.—The road is metalled throughout, and all the smaller streams are bridged; practicable at all seasons. This is the best road from the coast to Jeypore. The bridge over the Indravati river should now be complete.

Direction.—North and North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 70.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATNAM, WALTAIR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.	1	VIZIANAGRAM.— <i>Vide</i> Route No. 67, stage No. 3.
		13 m. 4f.	GAJAPATINAGAR.—13 m. 4. f. A small town. Headquarters of a Deputy Tahsildar. Metalled road, in good repair, fit for motors. Country open and cultivated. At 12½ m. cross the Gajapatinagar river, unbridged, fordable, except during heavy rains. <i>Camping ground.</i> —Nil. <i>Water.</i> —Plentiful; from the river. <i>Fuel.</i> —2 cartloads. <i>Fodder.</i> —No grazing. <i>Supplies.</i> —Grain for 500 men and 100 animals for 1 day only. 6 m. Ambativalga (574); 9 m. Bondapilly (2629).
		2	BURJAVALSA.—18 m. 4f. Road metalled, fit for motors. Country as before, only rocky in parts. Cross a river, unbridged. <i>Camping ground.</i> —Nil <i>Water.</i> —From wells and tanks, for 500 men and 100 animals. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —50 acres grazing at 1 m., for 600 animals.
		32 m. 0f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 70
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.		3	<p><i>Supplies.</i>—Nil.</p> <p>6 m. Pedamavapuram (1,455).[†]</p>
		44 m. Of.	<p>SALUR.—12 m. A town of fair size and some commercial importance. Head-quarters of a Deputy Tahsildar. Road metalled fit for motors. Country open and cultivated. Cross the Kotak and Salur rivers, 200 yds. and 100 yds. wide, respectively, unbridged, fordable, except in rains, and 1 <i>nala</i>, 20 yds. stone bridge, and 1 <i>nala</i> unbridged fordable.</p> <p><i>Camping ground.</i>—2 sq. m., S.-W. of town.</p> <p><i>Water.</i>—From streams, for any number.</p> <p><i>Fuel.</i>—Cut, 1,000 lbs.</p> <p><i>Fodder.</i>—2 sq. m. grazing, $\frac{1}{2}$ m. from town.</p> <p><i>Supplies.</i>—Grain for 4,000 men and 4,000 animals; oxen 50; sheep 200; goats 200; vegetables 100 lbs.</p> <p>6 m. Boosayavalsa (736).</p> <p>8 m. Ramabhadrapuram (3681).</p> <p>10 m. Tarapuram (891).</p>
THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		4	<p>SUNKI.—14 m. A small village. Road metalled, fit for motors. First 5 m. of country open and cultivated, thence all jungle. Cross 2 <i>nalas</i>, stone-bridged. Ascend a hill.</p> <p><i>Camping ground.</i>—$\frac{1}{4}$ sq. m., N. of village.</p> <p><i>Water.</i>—From a <i>nala</i> and a well, for 500 men and 500 animals.</p> <p><i>Fuel.</i>—Plentiful; from jungle.</p> <p><i>Fodder.</i>—Grazing for 2,000 animals, $\frac{1}{2}$ m. away.</p>
		58 m. Of.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 70
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR. THE GENERAL OFFICER COMMANDING MADRAS DISTRICT, WELLINGTON.		5	<p><i>Supplies.</i>—Grain <i>nil</i>; must be obtained from Salur or from Pachipenta 3 m. away. Oxen 50; sheep 20; goats 20; vegetables <i>nil</i>. 2 m. Jagiram; 7 m. Konavalsa.</p> <p>POTTANGHI.—14 m. Road metalled, fit for p. (373). motors. Rocky, jungly country;</p> <p>continue ascent of hill and cross the Sunki river, bridged, and one <i>nala</i>, bridged.</p> <p><i>Camping ground.</i>—Good, S. of village.</p> <p><i>Water.</i>—Excellent; for any number.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—2 sq. m. of grazing.</p> <p><i>Supplies.</i>—Nil; must be got from Salur. 7 m. Rallegeda (123).</p>
		72 m. 0f.	
		6	<p>SAMILAGADA.—14 m. Road metalled, fit for (543). motors. Open and cultivated country.</p> <p>Cross 7 <i>nalas</i>, bridged.</p> <p><i>Camping ground.</i>—High, open and good, but without shade; N.-W. of village.</p> <p><i>Water.</i>—Bad, from a tank; and very scarce, from 2 wells.</p> <p><i>Fuel.</i>—</p> <p><i>Fodder.</i>— } <i>Nil</i>.</p> <p><i>Supplies.</i>—</p> <p>3. m. Maliput (223); 6 m. Kundili (317); 7 m. Pungaru (35); 10 m. Doziamba (59). 12 m. Lungiri (260); 13 m. Bivaravalsa (239).</p>
		86 m. 0f.	
		7	<p>KORAPUT.—14 m. Road metalled, fit for (1587). motors. Country open and cultivated. Cross 6 <i>nalas</i>, 5 iron-bridged and 1 stone-bridged.</p>
		100 m. 0f.	

AUTHORITIES.		No. of stage and total distance.
Civil.	Military.	
<p>THE COLLECTOR OF VIZAGAPATAM, WALTAIR.</p> <p>THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.</p>		
		8
	114 m. 0 f	<p>JEYPORE.—14 m. Road metalled, fit for p. t. motors. Country open and cultivated. <i>Vide</i>, Route No. 55, stage No. 23 Descend a hill and cross 9 streams, iron-bridged. 7 m. Divughat (155); 11 m. Maliguda (162); 12 m. Narnipatti (44).</p>
	9	<p>BORIGUMMA.—14 m.. <i>Vide</i> Route No 57, stage No. 1.</p>
	128 m. 0 f 10	<p>NOWRANGAPUR.—13 m. A large, populous town. Road metalled, fit for motors. Country cultivated. At 11 m. cross the Indravati river, 500 ft. wide, unbridged, boats available; Bridge under construction.</p>
	141 m. 4 f.	<p><i>Camping ground.</i>—40,000 sq. yds., W. of town. <i>Water.</i>—From tank and wells, for 1,000 men and 500 animals.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 70.
Civil.	Mili- tary.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		11	<p><i>Fuel</i>.—Cut, 4 cartloads.</p> <p><i>Fodder</i>.—10 acres grazing, 1 mile distant.</p> <p><i>Supplies</i>.—Grain for 1,000 men for 1 month; oxen 4; sheep 6; goats 6; vegetables for 100 men for 1 day.</p> <p>4 m. Porli (92); a <i>nala</i> here with wooden bridge; 6 m. Kamara (316).</p>
		148 m. 4 f.	<p>PAPPADAHANADI.—7 m. 4 f. A small village. b. (586). Fair-weather road, not fit for motors.</p> <p>Country somewhat jungly. Cross 1 <i>nala</i>, wooden-bridged.</p> <p><i>Camping ground</i>.—40,000 sq. yds., E. of village.</p> <p><i>Water</i>.—From 2 tanks, for 500 men and 300 animals.</p> <p><i>Fuel</i>.—Obtainable.</p> <p><i>Fodder</i>.—10 acres grazing, near village.</p> <p><i>Supplies</i>.—Grain for 50 men for 4 days; oxen nil; sheep 2; goats 2; vegetables in small quantities.</p> <p>2 m. Majjiguda (100); 4 m. Thargan (148).</p>
		12	<p>DABUGAM.—10 m. 4 f. Fair-weather road, unfit for motors. Country jungly.</p> <p>Cross 2 branches of the Turi river and the Bhaskel river by a wooden bridge and two fords.</p> <p><i>Camping ground</i>.—20,000 sq. yds., W. of village</p> <p><i>Water</i>.—For 500 men and 200 animals.</p> <p><i>Fuel</i>.—From jungle.</p> <p><i>Fodder</i>.—10 acres grazing, near village.</p> <p><i>Supplies</i>.—Grain for 20 men for 2 days; oxen 1; sheep 2; goats 2; vegetables in small quantities.</p> <p>42 m. Jataba (148).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 70.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		13	<p>BIJJAPUR.—9 m. A hamlet. A fair-weather road, unfit for motors; country mostly jungle. Cross 1 <i>nala</i>, 100 ft., fordable.</p> <p><i>Camping ground</i>.—20,000 sq. yds., W. of village</p> <p><i>Water</i>.—Tank and <i>nala</i>, for 500 men and 200 animals.</p> <p><i>Fuel</i>.—Cut, 1 cartload.</p> <p><i>Fodder</i>.—10 acres grazing, within $\frac{1}{2}$ mile of hamlet.</p> <p><i>Supplies</i>.—Nil.</p>
		168 m.	
		14	<p>UMARKOT.—11 m. Road unfit for motors. p. (623). Country wet cultivation. Cross 1 <i>nala</i>, 54 ft., fordable. At 4 m. the Bhaskari river, 280 ft., wooden-bridged, and at 7 m. the Nagi River, 125 ft., wooden bridged.</p> <p><i>Camping ground</i>.—20,000 sq. yds., N. of village.</p> <p><i>Water</i>.—Nala and well, for 800 men and 500 animals.</p> <p><i>Fuel</i>.—Cut, 1 cartload.</p> <p><i>Fodder</i>.—10 acres grazing, within 1 mile</p> <p><i>Supplies</i>.—Grain for 800 men for 7 days; oxen 2; sheep 6; goats 6; vegetables in fair quantities.</p> <p>7 m. Sanaborandi (410).</p>
		m. f.	
		15	<p>BEHADA.—8 m. Road unfit for motors. b. (158). Country jungly. Cross 2 <i>nalas</i> wooden bridged.</p> <p><i>Camping ground</i>.—40,000 sq. yds., N. of village</p> <p><i>Water</i>.—For 500 men and 200 animals.</p>
		187 m. 0 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 70.
Civil.	Mil- lary.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		<i>Fuel.</i> —In forest, near by. <i>Fodder.</i> —In forest, near by. <i>Supplies.</i> —Nil.
		16	RAIGARH.—9 m. Road unfit for motors. b. (266). Country forest.
		196 m. 0 f.	<i>Camping ground.</i> —40,000 sq. yds., E. of village. <i>Water.</i> —From a tank. <i>Fuel.</i> —In forest, near by. <i>Fodder.</i> —In forest, near by. <i>Supplies.</i> —Grain <i>nī</i> ; oxen 1; sheep 1; goats 1; vegetables in small quantities.
		17	KUNDAI.—15 m. Fair-weather road, unfit for b. (381). motors. Country
		211 m. 0 f.	cultivated and jungly. <i>Camping ground.</i> —Nil. <i>Water.</i> —From wells and tank, for 300 men and 200 animals. <i>Fuel.</i> —In forest, near by. <i>Fodder.</i> —For 500 animals, in forest. <i>Supplies.</i> —Grain for 100 men for 2 days; oxen 2; sheep 2; goats 2; vegetables in small quantities. 2 m. Gansadhi (178); 7 m. Jodinga (129).

No. 70 (1).

FROM SALUR TO POTTANGHI.

Epitome.—Metalled, but unbridged for 9 miles; practicable for carts for 2 miles more; beyond this, track fit for foot passengers and pack animals only. Fever prevalent about the pass; water all the way. This is an alternative to the Pattanghi Pass, but is much inferior to it.

Direction.—NORTH BY WEST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 70 (1).
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C. MADRAS DISTRICT, WELLINGTON.		SALUR. <i>p. t.</i>
		1	TONDIVALSA AND TURNER'S PASS.
		2	POTTANGHI.—26 m. 0 f.
		26 m. 0 f.	

No. 70 (2).

FROM SAMILAGADA TO NARAYANAPATNAM.

Direction.—NORTH-EAST.

THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C. MADRAS DISTRICT, WELLINGTON.	1	SAMILAGADA.
		19 m. 0 f.	NARAYANAPATNAM.—19 m. 0 f. <i>p.</i>

No. 70 (3).

FROM JEYPORE TO KONGAR.

Epitome.—A bad track, unfit for pack animals in the rains.

Direction.—NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 70 (3).
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		JEYPORE. <i>p. l.</i>
		1	KONGAR.—14 m. 0 f.
		14 m. 0 f.	

ROUTE NO. 71.

FROM MARADAM TO TIKARAPADA.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.— $99\frac{5}{16}$ miles.

10 stages.

Epitome.—The road is metalled and, for the most part, bridged; is practicable for carts all the year round.

Direction.—NORTH-EAST AND NORTH.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 71.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		MARADAM OR BUKJAVALS. — <i>Vide</i> p. Route No. 70, stage 2.
		1	BOBBILI.—15 m. $3\frac{1}{2}f$. A large town. <i>b. p. t. r.</i> (15261). Road metalled, in good condition and fit for all transport. Country cultivated. Cross the Kottasoki and Salur rivers, unbridged, 200 yds. wide, stone causeway. <i>Camping ground.</i> —80,000 sq. yds., E. of town. <i>Water.</i> —From 5 wells and 3 tanks, for 200 men and 3,000 animals. <i>Fuel.</i> —Obtainable; from forest, 4 m. away. <i>Fodder.</i> —Grazing for 500 animals, 1 to 5 m. away. <i>Supplies.</i> —Grain for 1,000 men and 500 animals for 15 days; oxen 150; sheep 450; goats 450; vegetables <i>nil</i> . $10\frac{1}{2}$ m. Parudi (1404); 12 m. Sitarampura (325); $12\frac{3}{4}$ m. Mettavalva (1564).
		$15\cdot3\frac{1}{2}$	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 71.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		2	<p>PARVATIPUR.—15 m. A large town. Artisans of every class are to be found here. Road fit for all transport. Country cultivated.</p> <p>Route No. 72 joins here. At 6 m. cross the Sitanagram river, 200 yds. wide, fordable, except in rains; boats are available.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From 5 tanks and 6 wells, for any number.</p> <p><i>Fuel.</i>—Nil.</p> <p><i>Fodder.</i>—50 acres grazing, within 1 mile.</p> <p><i>Supplies.</i>—Grain for 2,000 men and 200 animals; oxen 4; sheep 15; goats 15; ((per day of each); vegetables in large quantities; 6 m. Sitanagram (988); 7 m. Appayapetta (268); 9 m. Cuchini (1122); 10 m. Maripivalsa (435); 12 m. Narsipuram (3134).</p>
		30 m. 3½f	
		3	<p>RUMARADA.—10 m. Road fit for all transport. Country cultivated. Cross the Alamanda river 50 yds. wide, fordable, except in rains, when high floods occur. The village of Ganganguvalsa is on the river bank on the Parvatipur side.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From river, for any number.</p> <p><i>Fuel.</i>—Cart 10 cartloads.</p> <p><i>Fodder.</i>—20 acres grazing, within 1 mile.</p> <p><i>Supplies.</i>—Scanty.</p> <p>2 m. Sivini (533); 3 m. Vikaamapuram (1299); 4½ m. Artham (615); 5½ Sominaiduvalsa; (439); 7½ m. Kotiparu (770); 8 m. Gumada (591).</p>
		40 m. 3f.	

AUTHORITIES.

Civil.

Milit-
tary.No.
of
stage
and
total
distance.

ROUTE NO. 71.

THE COLLECTOR OF VIZAGAPATAM, WALTAIR.

THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

4

52 m. 1½ f.

JIDIPETA.—11 m. 6 f. Road fit for all transport. Country jungly.

Camping ground.—800 sq. yds., W. of village.*Water*.—From the Nagavali River.*Fuel*.—*Fodder*.—Nil.*Supplies*.—1½ m. *nala*, 1¼ ft., fordable, unbridged; 2 m. Keradu (434); 4 m. *nala*, 85 ft., unbridged, fordable; 5 m. Kusa (208).

5

61 m.
2½ f.

RAYAGADDA.—9 m. 1 f. Road fit for all transport. Country jungly. A bridge

over the Nagavali river has to be crossed before entering the town, which is on high ground.

Camping ground.—800 sq. yds., N. of village.*Water*.—From the Nagavali river or its tributary, for any number.*Fuel*.—Obtainable.*Fodder*.—Nil.*Supplies*.—Grain only for 50 men for a month.3 m. Theppalareva; 4½ m. *nala*, 164 ft., unbridged, fordable; Partapuram (176); 5½ m. Laddah (170); 7 m. Pitamanli (214).

6

66 m.
71½ f.

KOMATLAPETA.—5 m. 5 f. Road fit for all transport. Country jungly.

Camping ground.—Nil.*Water*.—Abundant, from Nagavali river.*Fuel*.—Obtainable.*Fodder*.—Nil.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 71.
Civil.	Mili- tary.		
THE COLLECTOR OF VIZAGAPATAM, WALTARE. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Supplies.</i>—Nil. 2 m. Kobliguda (215) ; 3 m. Kottapetta (1,163) ; 4½ m. Kadamsariguda (46) ; cross <i>nala</i>, 27 feet, bridged. 5½ m. Devudala (137).</p>
		7	<p>JANGIRIBADI.—4 m. 3 f. Unmettalled road; (258). in bad repair, unfit for motors. Coun- try as before. At 3 m. cross the Nagavali river, unbridged, 270 yds. wide, fordable. <i>Camping ground.</i>—800 square yards, N. of village. <i>Water.</i>—From Nagavali river, for any number. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>— } Nil. <i>Supplies.</i> }</p>
		71 m. 2½ f.	
		8	<p>BALAGA.—11 m. Uninhabited. Road in good repair, but un- fit for motors. Country open and cultivated. <i>Camping ground.</i>—3,000 square yards, E. of village. <i>Water.</i>—From a <i>nala</i>, for any number. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—10 acres grazing within 1 m. <i>Supplies.</i>—Grain for any number from Bissim- katah, oxen 5 ; sheep 10 ; goats 15 ; vege- tables <i>nil</i>. 2 m. Boriguda (57) ; 4 m. Velagulapadu (147) ; 5 m. Gujjalapadu (231) ; 5 m. <i>nala</i>, 30 feet wide, fordable ; 6 m. <i>nala</i>, 20 yards, fordable ; 6 m. Badigam (238) ; 8 m, <i>nala</i>, 15 yds., fordable.</p>
		82 m. 2½ f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 71.
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIL.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	9	<p>BISSEMKATAK.—9 <i>m.</i> Road in good repair, but unfit for motors. Country open and cultivated. Cross 3 <i>nalas</i>, unbridged, fordable. <i>Camping ground.</i>—20,000 square yds., W. of village, but the place is very feverish. <i>Water.</i>—From tanks and a <i>nala</i>, for any number. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—5 acres grazing, close by; <i>Supplies.</i>—Grain unlimited oxen 5; sheep 20; goats 20; vegetables in fair quantities. 1 <i>m.</i> Potruguda (72); 2 <i>m.</i> Gavaduguda (66); 4 <i>m.</i> Chittalona (176); 5 <i>m.</i> Jimbiraguda (110); 6 <i>m.</i> Peddaguttiguda (221).</p>
		91 <i>m.</i> 2½ <i>f.</i>	
		10	
		99 <i>m.</i> 2½ <i>f.</i>	
			<p>TIKARAPADA.—8 <i>m.</i> Cross two <i>nalas</i>, unbridged, fordable. <i>Camping ground.</i>—5,000 square yds., W. of village. <i>Water.</i>—From tank, <i>nala</i> and wells, for any number. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Nil. <i>Supplies.</i>—Oxen 5; sheep 5; goats 10; vegetables nil. 2 <i>m.</i> Navagada (96); 3 <i>m.</i> Pottammuda (48); 3½ <i>m.</i> Goridi (72); 4 <i>m.</i> Govilirana (180); 4½ <i>m.</i> Bonduguda (277).</p>

No. 71 (1).

FROM RAYAGADDA TO DASMANTPUR.

Epitome.—Cross many unbridged hill streams. An alternative track for the main route, over which it has no advantages.

Direction.—NORTH AND NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 71 (1).
Civil.	Mili- tary.		
THE COLLECTOR VIZAGAPATAM, WALTAIR.	G. O. C., MADRAS DISTRICT, WELLINGTON.	..	RAYAGADDA. <i>p.</i>
		1	DASMANTPUR.—43 m. 0 f. <i>p.</i>
		43m. 0f.	

ROUTE NO. 72.

FROM CHICACOLE TO PARVATIPUR.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—53 miles.

5 stages.

Epitome.—The road is metalled and, for the most part, bridged; practicable for carts all the year round.

Direction.—North North-West.

AUTHORITIES.		No. of stage and total distance.	<p>ROUTE NO. 72.</p>
Civil.	Military.		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	1	CHICACOLE.— <i>Vide</i> Main Route No. V, stage <i>b.p.t.r.</i> No. 84.
		14 m. Of.	<p>VUPPINAVALSA.—14 m. A small village (645). just by the side of the road. Road metalled, in good repair, and fit for any transport. Country open and cultivated.</p> <p><i>Camping ground.</i>—Fair; 2 acres, E₄ of village.</p> <p><i>Water.</i>—For 1,000 men and 500 animals.</p> <p><i>Fuel.</i>—Scarce.</p> <p><i>Fodder.</i>—Nil.</p> <p><i>Supplies.</i>—Grain for 200 men and 50 animals for 7 days, at a week's notice; oxen and vegetables nil, sheep 20; goats 20, at a week's notice.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 72.
Civil.	Military		
THE COLLECTOR OF VIZAGAPATAM, WALTAIR.			<p>a causeway. The river is unfordable in the rainy season, when dugouts are available for crossing.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From river, for any number.</p> <p><i>Fuel.</i>—Plentiful.</p> <p><i>Fodder.</i>—20 acres grazing, within 1 m.</p> <p><i>Supplies.</i>—Grain for 500 men and 500 animals for 1 day; oxen and vegetables <i>nil</i>; sheep and goats 10 each per day.</p> <p>1 m. Nadukuru (1,063); 5 m. Kadakolla (330) 6 m. Karivalsa.</p>
THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		5	
		53 m. of	<p>PARVATIPUR.—8 m. <i>Vide</i> Route No. 71, <i>b.p.t.</i> stage No. 2. At $\frac{1}{2}$ m. cross the Naravali river, 100 yards, stone, bridged. Road fit for any transport. Country open and cultivated. The distance from Nazar is approximate. There is an alternative Route <i>via</i> Manipunta.</p> <p>1 m. Khadyavalsa (855); 7 m. Thotapalli (960); 6 m. Kuttavalsa (397).</p>

ROUTE NO. 73.

FROM CALINGAPATAM TO PARLA-KEMIDI.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.— $34\frac{1}{2}$ miles.

4 stages.

Epitome.—The road is metalled throughout and bridged, with the exception of the Vamsadhara river.

General direction.—North.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 73.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		CALINGAPATAM.—A big village. <i>p. t.</i> (5,991).
			<p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—Unlimited supply ; from Vamsadhara river and a tank.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—47 acres grazing at $\frac{1}{4}$ m., for 1,000 animals.</p> <p><i>Supplies.</i>— Grain, with one month's notice, for 500 men and 200 animals for 3 days; oxen 100 ; sheep 500 ; goats 500 ; vegetables <i>nil</i>.</p>
		I	NARSANNAPET.—7 m. <i>Vide</i> Main Route
		7m. Of.	<p><i>p. t.</i> No. 5 stage, No. 85.</p> <p>Metalled road, in good repair and fit for motors. Country open and cultivated. Cross the Vamsadhara river unbridged, fordable, except in flood, when 2 boats are available.</p> <p>2 m. Poluki (3,017); $4\frac{1}{2}$ m. Vedullavalsa ; $8\frac{1}{2}$ m. Thotada (319).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 73.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	2	SARAVAKOTA.—2 m. A small village. (2,089). Road fit for motors. Country open and cultivated.
		19 m. Of.	<i>Camping ground.</i> —4 acre 2 m. N. of village. <i>Water.</i> —From tanks and wells, for 10,000 men. and 1,000 animals. <i>Fuel.</i> —Scarce. <i>Fodder.</i> —No grazing. <i>Supplies.</i> —Grain, at 10 days' notice, for 200 men and 50 animals for 2 days; oxen, sheep and goats 100 each; vegetables <i>nil</i> . 6 m. Chellavanipata; 8 m. Vadimavalsa (218); 10 m. Aludu (817).
		3	KARASAVADA.—10 m. A small village. Road good, metalled and fit for motors.
		29 m. Of.	Pass Naulala Ghat, very steep. Open, cultivated country, except near Nantala Ghat. <i>Camping ground.</i> —5 acres, S. of village. <i>Water.</i> —From tanks, wells and river, for 10,000 men and 1,000 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —3 acres grazing at $\frac{1}{4}$ m., for 200 animals. <i>Supplies.</i> —Grain, at 10 days' notice, for 100 men and 50 animals for 4 days; oxen 50; sheep 100; goats 100; vegetables obtainable. 2 m. Karaduigi (244); 5 m. Dharmelaksh-mipuram (535); 6 m. Dasupuram (204); 8 m. Nantala (151); 9 m. Dhanupuram (511).

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 73.
Civil.	Mili- tary.		
COLLECTOR OF GANJAM, CHATRAPUR, G. O. C. MADRAS DISTRICT, WELLINGTON.		4	PARLA-KEMIDI.—5 m. 4 f. <i>Vide</i> Route No. <i>p.l.</i> 68, stage No. 11. Country open and cultivated. Road fit for motors. $\frac{1}{2}$ m. Buragam (557) ; 12 m. Patapatnam (3,568). Cross a river, bridged.
		34 m. 4 f.	

No. 73(1).

FROM HEREMANDALAM TO KARASAVADA.

Epitome.—Cross the Vansadhara river, unbridged. Road practicable for all arms at all seasons.

Direction.—North-East.

THE COLLECTOR OF GANJAM, CHATRAPUR, THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		HEREMANDALAM. <i>p.</i>
	1 7 m. 0 f.	KARASAVADA.—7 m. 0 f.

ROUTE NO. 74.

FROM SONNAPUR TO KURCHILLI.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—77 miles.

Epitome.—The road is metalled throughout and bridged, with the exception of the Godanadi and Mahanadi rivers and the Nondoni nala.

8 stages,

Direction.—North-East.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 74.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		<p>SONNAPUR.—On the coast. A small village (1883). <i>Camping ground.</i>—Nil. <i>Water.</i>—From wells and tanks, for 2,000 men and 500 animals. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—100 acres grazing at $\frac{1}{4}$ m., for 500 animals. <i>Supplies.</i>—Grain for 1,000 men and 100 animals for 1 day; other supplies nil.</p>
		1 6 m. Of.	<p>GIRISOLA.—6 m. A small village. Gravelled road, fit for motors. Country open and cultivated. Pass Main Route No. V in this stage. <i>Camping ground.</i>—10 acres, S. of road. <i>Water.</i>—From tanks, wells and channels, for 200 men and 200 animals. <i>Fuel.</i>—2 tons. <i>Fodder.</i>—8 acres grazing at 1 m., for 800 animals. <i>Supplies.</i>—Grain for 200 men and 100 animals for 2 days, with 2 days' notice; other supplies nil.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 74.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			3 m. Govindapur (304); 4 m. Jattapadra (1,035) 5 m. Jagapur (458).
		2	CHIKATI.—10 m. A large village. Gravelled; p. (3,574). road, fit for motors. and country open; and cultivated to the hills. The village is close. <i>Camping ground</i> .—20 acres, near village. <i>Water</i> .—From tanks and wells, for 500 men. and 200 animals. <i>Fuel</i> .—4 tons. <i>Fodder</i> .—Grazing at 1 m. for 500 animals. <i>Supplies</i> .—Grain only, with notice for 200 men and 100 animals for 2 days. ½ m. Purusothapur (678); 2 m. Muchindri (514) 5 m. Villapuram (481).
		16 m. Of.	
		3	DIGUPUDI.—14 m. A large village Metal- p. (5,064). led road, fit for motors. Country mostly cultivated, but jungly in parts. Cross 11 <i>nalas</i> , unbridged, and 2 unbridged streams. <i>Camping ground</i> .—Nil. <i>Water</i> .—From 7 tanks and 9 wells. <i>Fuel</i> .—20 cartloads stocked. <i>Fodder</i> .—20 acres grazing, for 400 animals, 1 m. away. <i>Supplies</i> .—Grain for 500 men and 100 animals for 15 days; oxen 80; sheep 6; goats 100; vegetables available in small quantities. 1 m. Senivarapet (1,402); 1½ m. Korabalka (583); 1½ m. Krishnapur (263); 2 m. Ligahayi (318); 3 m. Nivagam (530); 4 m. Jakkara
		30 m. Of.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 74.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			(253); 5 m. Balijoda (599); 6 m. Devulkali (433); 7 m. Madahadapuram (117); 8 m. Chokkipada (104); 9 m. Kalyanpur (268); 10 m. (877); 11½ m. Padinanalinapur (1,577). Cedarasinghi.
		4.	SERUGADA.—10 m. A small village on the Nondoni <i>nala</i> . (2,332). Metalled road, in good repair and fit for motors. Country open and cultivated. Cross the Godavari river, unbridged, and the Nondoni <i>nala</i> , bridged.
		40. Of.	<i>Camping ground</i> .—No suitable space, except a tope E. of village. <i>Water</i> .—Good supply, from the <i>nala</i> and from tanks and wells. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—5 acres grazing at 2 m., for 500 animals. <i>Supplies</i> .—Grain for 400 men and 100 animals for one day; oxen <i>nil</i> ; sheep 50; goats 200; vegetables ½ cartload. 3 m. Chodangipur (510); 6 m. Pattapur (2,556); 3 m. Sautrapur (163).
		5	ASKA.—9 m. A large village. Road fit for <i>p. t.</i> motors. Country open and cultivated. The river Rushikulya, bridged, crossed at 9 m., runs on the S. side of the village and the Mahanadi river on the N. side. Routes Nos. 75 and 76 cross here.
		49m. Of.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 74.
Civil.	Military.		
THE COLLECTOR OF GANTAM, CHATRAPUR.			<p><i>Camping ground.</i>—In a large grove E. of village.</p> <p><i>Water.</i>—Good and abundant; from Rushikulya river.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—Grazing at 1 m. radius for 200 animals.</p> <p><i>Supplies.</i>—Grain for 800 men and 200 animals for 4 days; oxen 10; sheep 200; goats 300; vegetables $\frac{1}{2}$ cartload.</p> <p>2$\frac{1}{2}$ m. Kirikirijhola (160); 3$\frac{1}{2}$ m. Dosomundali (469); 4 m. Denkirala (261); 5 m. Patrapur (57); 6 m. Khomusara (272); 7 m. Bahadaguda (285); 9 m. Dirugam (770).</p>
		6 59 m. of.	<p>BALLIPADRA.—10 m. A small village.</p> <p>Metalled road, fit for motors. Country open and cultivated. Cross the Mahanadi river $\frac{1}{2}$ m. wide, fordable.</p> <p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—From tanks and wells, scarce in hot season; ordinarily sufficient for 4,000 men and 4,000 animals.</p> <p><i>Fuel.</i>—3 cartloads stacked.</p> <p><i>Fodder.</i>—Grazing for 200 animals, on private land, within 1 mile.</p> <p><i>Supplies.</i>—Grain for 1,000 men and 1,000 animals for 4 or 5 days; sheep 30; goats 50; oxen and vegetable nil.</p> <p>2 m. Bhavanpur (1,299); 5 m. Bhetvoji (1,747); 6$\frac{1}{2}$ m. Bhejjipetti; 7 m. Bhovokhozli (614).</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 74.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		7	BUGADA.—8 m. A big village. Road metalled and fit for motors. Country hilly and jungly. Cross 3 <i>nalas</i> , bridged. <i>Camping ground</i> .—12 acres dry lands, W. of village, available. <i>Water</i> .—From tanks and wells, for 200 men and 100 animals; scarce in hot season. <i>Fuel</i> .—Scarce. <i>Fodder</i> .—No grazing. <i>Supplies</i> .—Grain for 200 men and 100 animals for 7 days; oxen 10; sheep and goats 100 each; vegetables <i>nil</i> . 4 m. Pangiri (579).
		67m. 0f.	
		8	KURCHILLI.—10 m. Road metalled, fit for motors. Country partly jungly and partly cultivated. <i>Camping ground</i> .—20 acres dry land available, N. of village. <i>Water</i> .—Bad and scarce; for 100 men and 50 animals. <i>Fuel</i> .—Scarce. <i>Fodder</i> .— } <i>Supplies</i> . — } NIL.
		77m. 0f.	

No. 74 (1).

FROM BALLIPADRA TO GULLERI.

Epitome.—Cross the Badanoi river and some small streams, unbridged Road metalled and practicable at all seasons.

Direction.—South-east.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 74.	
Civil.	Military.			
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		BALLIPADRA.—Russellkonda, <i>vide</i> Route No. 76, stage No. 6.	
		1	} Cross the Badanoi river, unbridged. Road metalled and practicable as far as Kullada; thence a fair-weather trac. The road passes through a malarious district.	RUSSELLKONDA.—17 <i>m. 0 f. p. l.</i>
		17 m.		
		2		KOLLADA.—4 m. 0f
		21 m.		
3	GULLERI.—11 m. 0f.			
		32 m.		

ROUTE NO. 75.

FROM BERHAMPORE TO DHARAMPUR.

Authority and date.—General Officer Commanding, 9th- Division, January 1919.

Distance.—80 miles.

8 stages.

Epitome.—The road is metalled as far as Pipalponka, thence earthen; it is bridged, with the exception of the Jhora river, which is however, fordable.

Direction.—North-North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 75.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			BERHAMPORE.— <i>Vide</i> Main Route No. V, <i>b. p. i. r</i> stage No. 93.
		1	INGELLI, —14m. 4 f. A small village. Gravelled road, good and fit for motors. Country open and cultivated.
		14m. 4 f.	<i>Camping ground.</i> — $\frac{1}{2}$ sq. m., S. of village, good high and open. <i>Water.</i> —From a tank and wells, for 500 men and 500 animals. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —50 acres grazing, at 1 mile, for 500 animals. <i>Supplies.</i> —Rice only for 500 men for 4 days; oxen <i>nil</i> ; sheep 100; goats 100; vegetables in small quantities.
		2	ASKA, 10 m. 4 f. <i>Vide</i> Route No. 74, stage. <i>p. i.</i> No. 5. Road metalled and fit for motors.
		25m. 0 f.	Country open and cultivated. At 9 m. cross the Rushikulya canal, bridged.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 75.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			3 m. Kamchindrapur (582); 7 m. Nolabenta (1261); 9 m. Kalashandapur (1,392).
		3	JANNIMELLI.—10 m. A small village. (253). Road fit for motors Country jungly.
		35m. 0f.	The Rushikulya canal, crossed at 9 m., runs on the N. of the village. Camping ground.—Nil. Water.—Good supply; from wells and river. Fuel.—Plentiful. Fodder.—No grazing. Supplies.—Nil. 8 m. Mundomorgi (1,963); 10 m. Gododamodari- palli (1,213).
		4	SURADA.—12 m. A large village. Road fit p. t. (4345) for motors. At 11 m. cross the Jaravi
		47m. 0f.	river, unbridged, fordable. Camping ground.—1 acre to W. of and 5 acres near village. Water.—Abundant supply; from Rushikulya river, which runs on north side of village. Fuel.—Plentiful. Fodder.—Grazing at 1 m., for 500 animals. Supplies.—Grain for 400 men and 200 animals for 4 days; oxen 15; sheep 100; goats 300; vegetables 1 cartload. 4 m. Nauzada (1,514); 5 m. Suramuni (1,251).
		5	PIPALAPONKA.—8 m. Road metalled and (144). fit for motors; passes through alternate
		55m. 0f.	open ground and jungle. The village is on the

AUTHORITIES.

No.
of
stage
and
total
distance.

Civil.

Mili-
tary.

ROUTE NO. 75.

THE COLLECTOR OF GANTAM, CHITRAPUR.

THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

6
64m. Of.7
70m. Of.

E. bank of the Rushikulya river, which is crossed at 8 $\frac{3}{4}$ m., unbridged and fordable, except in flood. At 3 $\frac{3}{4}$ m. cross 4 *nalas*.

Camping ground.—5 acres: N. of village.

Water.—Plentiful: from river and wells.

Fuel.—Obtainable; from Forest Reserve.

Fodder.—Grazing plentiful, at 2 m., for 300 animals.

Supplies.—34 oxen only.

1 $\frac{1}{2}$ m. Bahukapatti (58); 2 m. Bhalyapada (88); 4 m. Govindapur (123); 5 m. Osurobondho (226); 5 $\frac{1}{2}$ m. Dallada (183); 6 $\frac{1}{8}$ m. Kharikatti (26).

KHORADA.—9 m. Road for first 2 $\frac{1}{2}$ miles (450).

metalled and fit for wheeled transport;

thence cart track only, passable in dry seasons. Country jungly.

Camping ground.—Only open ground near Rest Shed, for 300 men.

Water.—From wells and river, for 300 men.

Fuel.—Obtainable.

Fodder.—Grazing at $\frac{1}{2}$ m., for 200 animals.

Supplies.—Grain and oxen *nil*; sheep 10; goats 20; vegetables *nil*.

2 $\frac{1}{2}$ m. Dabiki (117); 3 m. Godagatcha (327);

3 $\frac{1}{4}$ m. Sanogatcha (146); 5 m. to 7 $\frac{1}{2}$ m. pass 5 hamlets; 8 $\frac{1}{2}$ m. Pudamari (138).

DIGI.—6 m. A track, fit for country carts only. Jungle country.

Cross 3 *nalas*, un-

bridged.

Camping ground.—50 sq. yds., S.-E. of village, and open space near.

AUTHORITIES.

Civil.

Military.

No.
of
stage
and
total
distance.

ROUTE NO. 75.

THE COLLECTOR OF GANJAM, CHATRAPUR.

THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.

8

80 m. Of.

Water.—Scarce ; for 100 men and 50 animals.*Fuel*.—Obtainable.*Fodder*.—Grazing plentiful, at 1 m., for 500 animals.*Supplies*.—Grain for 100 men and 10 animals for 1 day ; oxen *nil* ; sheep 10 ; goats 20 ; vegetables *nil*.

1 m. Beradakya (244) ; 2 m. Keudabada (291) ; 4 m. Sudadokhandia (463) ; 4½ m. Karubarikya (114) ; 5 m. Muridipaya (233) ; 5½ m. Sundokuhpa (225) ; 6 m. Kittakia (200) ; Dhodogomsaka (120).

DHARAMPUR.—10 m. Road fit for country carts only. Country cultivated. Cross one stream, unbridged, fordable. Route No. 77 crosses here.

Camping ground.—20 acres to N. of and 100 acres open ground close to village.*Water*.—Good supply ; from well and stream ; for 1,000 men and 100 animals.*Fuel*.—*Nil*.*Fodder*.—10 acres grazing, within 1 m.*Supplies*.—Grain for 100 men and 200 animals for 2 days ; oxen *nil* ; sheep 10 ; goats 30 ; vegetables 1 cartload.

5 m. Molahbhanj (584).

ROUTE NO. 76.

FROM GANJAM TO BISPARA.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance,—112 miles.

10 stages.

Epitome.—The road is metalled, with the exception of portion of the last stage, which is gravelled; it is metalled and bridged, with the exception of the Mahanadi river at Aska; practicable for wheeled traffic at all times of the year.

Direction.—North-West and North.

AUTHORITIES.		No. of stage and total distance.	<h3 style="text-align: center;">ROUTE NO. 76.</h3>
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE G.O. C., MADRAS DISTRICT, WELLINGTON.	..	GANJAM.— <i>Vide</i> Main Route No. 5, stage <i>p.r.</i> No. 95.
		1	BIRDIGOPALPUR.—8 m. 4 f. A very small village. Metalled and gravelled road, fit for motors. Country open and cultivated. <i>Camping ground.</i> —Nil.
		8m. 4f.	<i>Water.</i> —From 2 wells and 1 tank, for 1,000 men for 1 month. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —40 acres grazing at $\frac{1}{4}$ m., for 2,000 animals for a month. <i>Supplies.</i> —Sheep and goats 4,500 each only. 1 m. Pinkla; 2 m. Sankonegrum; 3 m. Tolopurna (2,266); 4 m. Kolajamna; $4\frac{1}{2}$ m. Basinoo-par (593); 5 m. Kunguri (411); 6 m. Kasapuli (284).
		2	PURUSHOTTAPUR.—10 m. Road metalled, <i>p.</i> (3,680). fit for motors. Country open and cultivated.
		18m. 4 f.	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 76.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR, THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Camping ground.</i>—Nil.</p> <p><i>Water.</i>—Unlimited supply; from 4 wells and 2 tanks and Rushikuliya river.</p> <p><i>Fuel.</i>—400 maunds.</p> <p><i>Fodder.</i>—20 acres grazing, within 2 miles, for 300 animals.</p> <p><i>Supplies.</i>—Grain for 500 men for 10 days and 400 animals for 2 days; oxen <i>nil</i>; sheep 15; goats 40; vegetables 90 maunds.</p> <p>5 m. Khagipuli (384); 9 m. Kumari (991).</p>
		3	<p>BOYARANI.—10 m. A large village. Road p. (3,906'). fit for motors.</p> <p>Country open and cultivated.</p> <p><i>Camping ground.</i>—3 acres, E. of village.</p> <p><i>Water.</i>—Not good; from wells and 1 tank, for 500 men and 100 animals.</p> <p><i>Fuel.</i>—400 maunds.</p> <p><i>Fodder.</i>—10 acres grazing close by, for 100 animals.</p> <p><i>Supplies.</i>—Grain for 500 men and 500 animals for 4 days; oxen 100; sheep 20; goats 100; vegetables 50 maunds.</p> <p>2 m. Sorosingi (692); 4 m. Bodokhonidi (939); 4½ m. Veerajahi Madapa (622); 5½ m. Bananor (771).</p>
		4	<p>ASKA.—7 m. <i>Vide</i> Route No. 74, Stage N. 5. p. l. Road fit for motors.</p> <p>Country open and cultivated. Cross the Mahanadi river, unbridged, usually fordable; 2 boats available</p> <p>At 1 m. and 2½ m. cross streams, bridged.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 76.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	5	1 m. Pothara; 1½ m. Golamundala; 2 m. Kotinada (239).
		49 m. Of.	GANGUPUR.—14 m. A small village. Road fit for motors. Country open and cultivated. <i>Camping ground.</i> —In a tope, S.-E. of village. <i>Water.</i> —For 400 men and 200 animals, not good in hot season. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —From forest reserve, 2 m., for 200 animals. <i>Supplies.</i> —Grain for 400 men and 200 animals for 1 day; sheep 50; goats 100; oxen and vegetables <i>nil</i> .
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.	6	5 m. Guntupadu (1,171); 7 m. Ballisira (739); 8 m. Khondravoli (310); 9 m. Nimina (1,779); 10 m. Kesarapalli (417); 11 m. Munigadi (520).
		60 m. Of.	RUSSELLKONDA.—11 m. A small town. <i>p. t.</i> (6,052). The river Lokharakhanderuns on S.-W. side of it. Road as before. Country partly cultivated and partly hilly and jungly. At 9 m. 7 m. cross the Loharakhandi river, bridged and many <i>nalas</i> , large and small, all bridged. <i>Camping ground.</i> —3.61 acres N. and 5 acres near town. <i>Water.</i> —From river and wells, for 500 men and 100 animals for 2 days. <i>Fuel.</i> —Obtainable. <i>Fodder.</i> —No grazing.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 76.
Civil.	Military.		
THE COLLECTOR OF GUNTUR, GUNTUR. THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.			<p><i>Supplies.</i>—Grain for 500 men and 100 animals for 2 days; oxen 10; sheep 30; goats 30 vegetables 5 maunds. 3 m. Gobara (819).</p>
		7	<p>MOJJAGADA.—8 m. Road fit for motors. (1,229). Country hilly and jungly. Cross many <i>nalas</i>, bridged. <i>Camping ground.</i>—15 acres dry and land W. of village can be used. <i>Water.</i>—From wells and tank, for 50 men and 20 animals only. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—No grazing. <i>Supplies.</i>—Grain for 50 men and 20 animals for 7 days only.</p>
		38 m. Of.	
		8	<p>DURGAPRASAD.—9 m. Road fit for motors. (465). Country hilly and jungly. Cross several <i>nalas</i>, bridged. <i>Camping ground.</i>—<i>Nil.</i> <i>Water.</i>—From <i>nala</i> and well; very scarce. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>— } <i>Nil.</i> <i>Supplies.</i>— } 5 m. Rambha (224).</p>
		77 m. Of.	
		9	<p>TICKAHALLI.—14 m. Road metalled and fit for motors except at a ghat, up which a new road is being made, which motors will be able to climb. Country open and hilly. At 5½ m. pass Kalingia, where Route No. 44 joins</p>
		91 m. Of.	

AUTHORITIES.		No. of stage and total distance.	ROUTE. NO. 76.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATEAPUR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		<p><i>Camping ground.</i>—Open ground round village can be used. <i>Water.</i>—From well and 1 tank. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing available close by, but poor. <i>Supplies.</i>—With previous notice, grain for 1,000 men and 50 animals for 1 day; oxen 12; sheep 30; goats 50; vegetables <i>nil</i>. 4 m. Kabingia (500).</p>
	THE G. O. C., PRESIDENCY, FORT WILLIAM.	10	
		112 m. 0 f.	BISPARA.—21 m. <i>Vide</i> Indian Route Book, Volume VIII. Distance approximate.

No. 76 (1).

FROM MOJJAGADA TO BIRAKOTE.

Epitome.—This road is unmetalled.

Direction.—West.

THE COLLECTOR OF GANJAM, CHATEAPUR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.		MOJJAGADA.—A small village. Water from tanks and wells; scarce in dry season.
		1	BIRAKOTE.—10 m. 0 f.
		10 m.	

No. 76 (2).

FROM TINTELGADA TO BELLURGAON.

Epitome.—Cross the Bodanoi river, unbridged. Road metalled and practicable.

Direction.—NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 76 (2).
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		TINTELGADA
		1	BELLURGAON.—22 m. O. f.
		22 m.	

No. 76 (3).

FROM TINTELGADA TO BISPARA.

Epitome.—Cross the Baroda and Salangi rivers and several hill streams, unbridged. Road suitable for wheeled traffic in the dry season; pass one steep hill.

Direction.—North-West.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 76 (3).
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR. G. O. C. PRESIDENCY BRIGADE, FORT WILLIAM.			TINTELGADA.
		1	KALIKATTA.—15 m. 0f.
		15m. 0f.	
		2	BISPARA.—11 m. 0 f.
		26 m.	

ROUTE NO. 77.

FROM KALINGIA TO MOHANGIRI.

Authority and date.—General Officer Commanding, 9th Division, January 1919.

Distance.—71½ miles.

8 stages.

Epitome.—The road is metalled throughout and is bridged; practicable at all times for cart traffic and for artillery during the hot season; country generally hilly and fairly wooded; cultivation near the villages.

Direction.—WEST AND NORTH-WEST.

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 77.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE G. O. C. MADRAS DISTRICT, WELLINGTON.	1	<p>KALINGIA.—On Route No. 76, Stage 9. b., (1,175).</p> <p><i>Camping ground.</i>—Open ground round village can be used. <i>Water.</i>—From 2 wells and a nala. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Poor grazing, near village. <i>Supplies.</i>—With previous notice, grain for 500 men and 20 animals for a day; oxen 6; sheep 20; goats 20; vegetables nil.</p> <p>UDAYAGIRI.—4 m. 4 f. Metalled road, fit for wheeled transport. b. p. t., (977). Country hilly, partly cultivated and partly jungle. <i>Camping ground.</i>—Open plain S. of village can be used.</p>
		4 m. 4 f	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 77.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.			<p><i>Water.</i>—From 5 wells, a tank and a <i>nala</i>. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Grazing close by, but poor. <i>Supplies.</i>—With notice, grain for 500 men and 20 animals for 1 day; oxen 6; sheep 20; goats 20; vegetables scarce.</p>
		2	<p>RAIKA.—14 <i>m.</i> Road passes several villages <i>b.</i>, (1,438). and crosses some <i>nalas</i>, bridged. First 3 miles of country open, then hill and jungle. Road metalled and fit for wheeled transport. <i>Camping ground.</i>—Open ground near village can be used. <i>Water.</i>—From wells and tanks. <i>Fuel.</i>—Obtainable. <i>Fodder.</i>—Nil. <i>Supplies.</i>—With notice, grain for 500 men and 50 animals for a day; oxen 6; sheep 20; goats 20; vegetables <i>nil</i>.</p>
		18·4·	
		3	
THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		29 <i>m.</i> 4 <i>f.</i>	<p>DHARAMPUR.—11 <i>m.</i> <i>Vide</i> Route No. 75, stage No. 8. as before. Pass some small villages. All <i>nalas</i> bridged.</p>
		4	<p>NAOGAON.—7 <i>m.</i> Road as before; country (555). hills and forest. All <i>nalas</i> bridged. <i>Camping ground.</i>—10 acres to W. and open ground near by. <i>Water.</i>—From 1 well only. <i>Fuel.</i>—Obtainable.</p>
		36 <i>m.</i> 4 <i>f.</i>	

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 77.
Civil.	Military.		
THE COLLECTOR OF CANJAM, CHATRAPUR.			
THE GENERAL OFFICER COMMANDING, MADRAS DISTRICT, WELLINGTON.		5	<p><i>Fodder.</i>—No grazing.</p> <p><i>Supplies.</i>—Grain for 100 men and 200 animals for 1 day; oxen 300; sheep <i>nil</i>; goats 50; vegetables <i>nil</i>.</p>
		46 m. 4f.	<p>BALLIGUDA.—10 m. Road and country as before. All <i>nalas</i> bridged.</p> <p><i>Camping ground.</i>—5 acres, E. of village.</p> <p><i>Water.</i>—From 9 wells and 2 tanks.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—<i>Nil</i>.</p> <p><i>Supplies.</i>—Grain for 100 men and 200 animals for 3 days; oxen 1,000; sheep 50; goats 500; vegetables scarce.</p> <p>2 m. Kusadandi (809); 5 m. Mahasingi (1,122), where the river is crossed, bridged.</p>
		6	<p>BARACOMA.—7 m. Gravelled road, fit for motors and wheeled transport. Country</p>
		52 m. 4f.	<p>hilly and jungly. All <i>nalas</i> have wooden bridges, which are liable to be destroyed by floods; ordinarily, all are fordable.</p> <p><i>Camping ground.</i>—5 acres, S. of village.</p> <p><i>Water.</i>—From wells and tank.</p> <p><i>Fuel.</i>—Obtainable.</p> <p><i>Fodder.</i>—No grazing.</p> <p><i>Supplies.</i>—Grain for 100 men and 200 animals for a day; oxen 300; sheep 30; goats 40; vegetables <i>nil</i>.</p>

AUTHORITIES.		No. of stage and total distance.	ROUTE NO. 77.
Civil.	Military.		
THE COLLECTOR OF GANJAM, CHATRAPUR.	THE G. O. C., MADRAS DISTRICT, WELLINGTON.	7 64 m. 4f.	POKHIRIBUND.—11 m. Road and country (198). as before. All <i>nalas</i> bridged. <i>Camping ground</i> .—4 acres, S. of village. <i>Water</i> .—From tank and wells. <i>Fuel</i> .—Obtainable. <i>Fodder</i> .—No grazing. <i>Supplies</i> .—Grain for 100 men and 200 animals for 10 days ; oxen 200 ; sheep 10 ; goats 40 ; vegetables <i>nil</i> .
	THE G. O. C., PRESIDENCY BRIGADE, FORT WILLIAM.	8 71 m. 5f.	MOHANGIRI.—7 m. <i>Vide</i> Indian Route Book. Vol. VIII. Cross 4 streams, unbridged, and a hill.

LIST OF SEGREGATION (SANITARY)

Item No.	Station.	Name of Camp.	Where Camp situated.	Existing Water-supply.	Accommodation available.
1	Madras ..	Segregation Camp.	Near Government Veterinary Hospital and Teachers' College, Saidapet.	3 Wells close by ..	500 men approximately, in tents.
2	Wellington.	NW	Between B. S. H. and Hospital cherry village.	There is a stream which flows by the camp, which always has a fair supply suitable (with medical sanction) for washing, etc. For drinking water) there is a pipe which passes within 100 yds. of the site and could be tapped, and, by providing tanks to store the water, sufficient could be collected at night for drinking and cooking purposes.	500
3	Cannanore	Thottoda	5 miles from Cannanore Fort and west of Tellicherry road.	Wells in close proximity.	300
4	Poonamallee.	Segregation Camp.	Between 11th and 12th Cantonment boundary stones.	Well in Barracks, about 700 yds. distant; washing water from well 60 ft. distance covered with planks, provided with hand pump.	240

CAMPS IN THE MADRAS DISTRICT.

Accommodation at present provided for,	Present condition of Camp.	Boundary Marks.	Area of Camp.	REMARKS.
<i>NH</i>	Sanitary and good condition.	<i>North</i> —Grass Farms. <i>South</i> —Adyar Nullah and Teachers' College. <i>East</i> —Adyar River. <i>West</i> —Government Veterinary Hospital and Mount Road.	17 acres.	
<i>NH</i>	Clean, no shade and very level.	..	400' x 300'.	
<i>NH</i>	New	..	About 20 acres.	
<i>NH</i>	Open plain, sandy, low-lying. Water lodges in rainy weather.	Being fixed by wooden pegs.	44,415 sq. ft.	

LIST OF SEGREGATION (SANITARY)

Item No.	Station.	Name of Camp.	Where Camp situated.	Existing Water-supply.	Accommodation available.
5	Vizianagram	Marne Line Camp.	South of Marine Lines.	Pipe water supply; standard on main road, 50 yds. E. of Camp.	550
6	Calicut, West Hill.	Cheyayar	North-east of Calicut, 6 miles from West Hill.	Large well and ample supply of drinking water, sufficient for 100 men for one year.	1,000
7	St. Thomas's Mount.	Chettlapakkam Sanitary Camp.	1½ miles S.-E. of Pallavarum.	Abundant water-supply. Wells in good condition.	500
8	Trichinopoly.	Temporary Segregation Sanitary Camp.	About 3 furlongs from S. I. Infantry Lines, M. W.	Pipe water from lines, and well water from an adjacent private garden.	500
9	Malapuram	Cholera Hill	On west side of Manjeri Rd. at 6 furlongs, distance, ½ miles N.-W. of Barracks.	Well supply; good	1,350
9-1	Malapuram	Nectiparamba.	1 mile N. of Barracks.	Wells, 400 yds. from camp in Police Hospital compound.	1,100

CAMPS IN THE MADRAS DISTRICT—*contd.*

Accommodation at present provided for.	Present condition of Camp.	Boundary marks.	Area of Camp.	REMARKS.
N4	Clean, open, healthy site.	..	300 sq. yds.	
N4	Good ..	P. W. D. stones around site.	130 acres.	
N4	Satisfactory in every respect.	Granite pillars marked M. W., 1, 2, 3, 4, etc.	23.85 acres.	
N4	Good ..	East—Private Garden. North—Station, Trenching system and tank. West—Parade ground of S. I. Lines. South—Racecourse Road.	..	
N4	Good ..	East—By Manjeri Road. West—By Tirur Road.	..	
N4	Good ..	North—By Angadipuram.	..	

1000

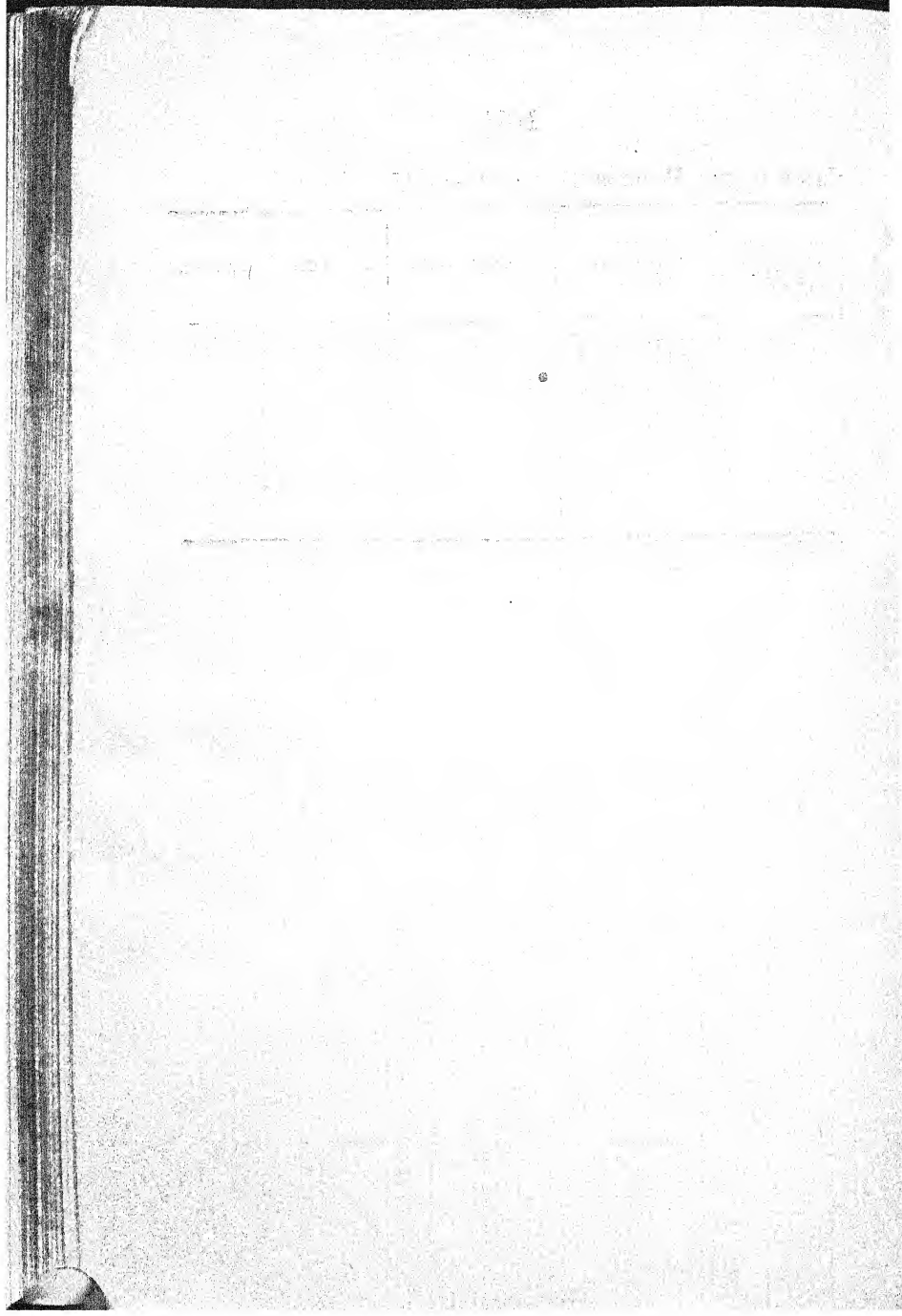
LIST OF SEGREGATION (SANITARY)

Item No.	Station.	Name of Camp.	Where Camp situated.	Existing Water-supply.	Accommodation available.
10	Hoskote	Hoskote Emergency Camp.	$\frac{1}{2}$ mile west of Hoskote Tank and $\frac{1}{2}$ mile west of Husker village.	No special arrangements exist. Water should be obtained from Hoskote Tank by sinking well and then pumping to Camp storage tanks.	Say 2 Battalions.

CAMPS IN THE MADRAS DISTRICT—*concl'd.*

Accommodation at present provided for.	Present condition of camp.	Boundary marks.	Area of Camp.	REMARKS.
<i>Nil</i>	No arrangements made, pending decision of Durbar regarding site.	<i>Nil</i>	30 acres.	

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